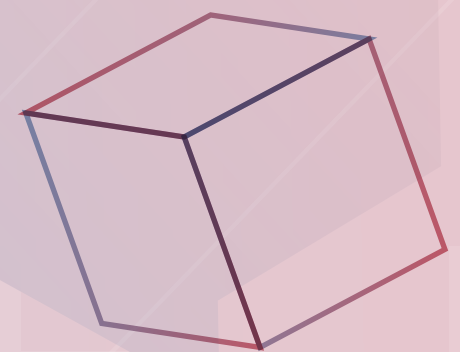
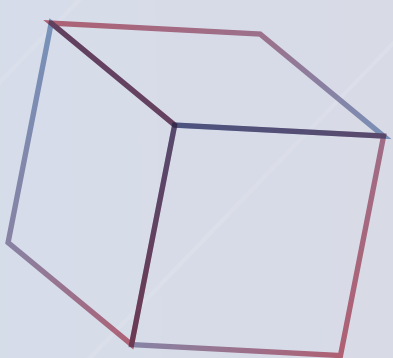
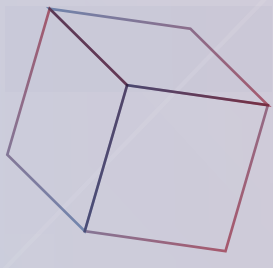
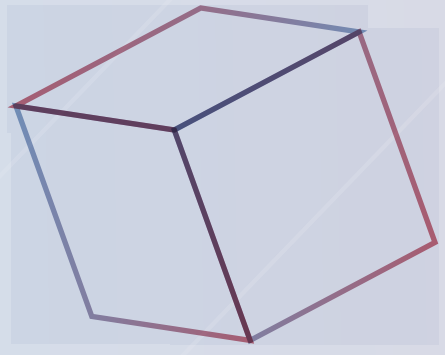


TALENT PROFILE

YEAR OF 2024



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Dear Industry Partners,



Mr Tan Kok Yam

Chairman

WorldSkills Singapore Council

Chief Executive

SkillsFuture Singapore

I am proud to present our WorldSkills Lyon 2024 competitors.

These young talents have honed their character and abilities through rigorous training and intense global competition. Throughout their WorldSkills journey, they have demonstrated innovativeness, perseverance, and consistent focus on technical mastery. In their respective fields, they have been able to master not only current industry standards, but also emerging technologies.

Their competition experience, particularly on a global stage like WorldSkills, has enabled them to develop critical skills like problem-solving, teamwork, and performing under pressure. Competing with the best in the region and the world has given them both the confidence to stand out, and the humility to continue learning and improving.

Given the right opportunities, I am confident that these young men and women will make remarkable contributions to the organisations and companies that they join.

As Singapore's Official Delegate to WorldSkills Lyon 2024, I have had the privilege of witnessing firsthand the extraordinary journey of our competitors. Their superior dedication, resilience, and skill have been nothing short of inspiring.

Throughout the intense preparation and during the competition itself, I have seen these young talents push themselves to new heights. They have tackled complex challenges, adapted to cutting-edge technologies, responded to the unexpected and stayed composed and resolute under immense pressure - all while representing Singapore with pride on the global stage.

What struck me most was not just their technical prowess, but their growth as individuals. The soft skills they have developed - teamwork, problem-solving, resourcefulness and emotional resilience - are invaluable in today's fast-paced work environment.

These competitors are not just skilled in their trades; they're innovators, quick learners, and future leaders. Their WorldSkills experience has equipped them with a unique global perspective and a drive for excellence that will undoubtedly benefit any organisation.

As you review their profiles, I urge you to see beyond the medals and accolades. See the potential, the passion, and the promise that these young professionals bring. Whether for employment, internships, or scholarships, investing in these talents means investing in the future of your industry.

I have seen their journey. I've witnessed their potential. Now, I invite you to be part of their future success.

Thank you for considering our WorldSkills competitors. They are ready to make a significant impact in your organisations.



Ms Low Khah Gek

Official Delegate, Singapore

Deputy Chairman

WorldSkills Singapore Council

Chief Executive Officer

Institute of Technical Education

The WorldSkills Movement: Elevating Skills Excellence

The WorldSkills Movement promotes global excellence in vocational and technical skills, inspiring young people to achieve their full potential. Through competitions and partnerships, it raises the profile of skills mastery, fosters global collaboration, and drives economic growth. WorldSkills exemplifies the transformative power of skills in strengthening communities and economies worldwide.

About WorldSkills Singapore

WorldSkills Singapore, led by WorldSkills Singapore Council, raises excellence in technical skills through competitions that promote public awareness and support the SkillsFuture movement.

Held biennially, it is jointly organised by the Institute of Technical Education, Polytechnics, the Ministry of Education, and SkillsFuture Singapore. The competition provides a platform for young talents to showcase their skills, deepen expertise, and contribute to a competitive workforce.

Top performers advance to WorldSkills ASEAN and WorldSkills International, competing against the region's and world's best. This prestigious journey hones their capabilities, aligning their skills with industry standards and positioning them as future leaders.



Kai Ho

Kai Ho has demonstrated remarkable expertise in Digital Construction, blending architectural knowledge with advanced Building Information Modelling (BIM) technologies. His ability to integrate sustainability and smart building practices earned him a Gold Medal at WorldSkills Singapore 2023 and a Medallion for Excellence at WorldSkills Lyon 2024. With hands-on experience in real-world architectural projects, Kai Ho showcases strong technical precision, adaptability, and problem-solving skills.

Selected for his commitment to innovation and excellence, he represents Singapore's next generation of architectural talent, driving the future of sustainable and digitally enhanced urban development.

Competition Segment:
Construction and Building Technology

Specialisation:
Digital Construction

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Medallion for Excellence

Technical Competencies:

- **Autodesk Revit**
- **Dynamo**
- **Navisworks**
- **Twinmotion**
- **Enscape**
- **Autodesk Construction Cloud**

Key Accomplishments

Competing in WorldSkills Competitions (Digital Construction) propelled Kai Ho to refine his BIM and coordination skills under tight timelines, a challenge that demanded precise modelling and adept conflict resolution. Stumbling blocks, like misplacing or duplicating floors, taught him to maintain situational awareness while keeping his pace.

Additionally, grappling with less-familiar software like Navisworks at WorldSkills Lyon 2024 tested his ability to pivot swiftly. Yet Kai Ho's strategic time allocation—identifying high-mark tasks and forging a plan on the fly—allowed him to adapt and complete vital subtasks, culminating in a **Medallion for Excellence**.



Education & Experiences

Educational Background:

Through the Diploma in Architecture at Nanyang Polytechnic, Kai Ho has engaged in comprehensive design coursework that emphasises both user-friendly spaces and sustainability. His ***Building Information Modelling and Management (BIMM)*** module introduced him to Autodesk Revit, essential for architectural modelling, and WorldSkills training broadened his abilities in quantity scheduling, analysis (energy, lighting, and carbon), and parametric family creation—preparing him for complex projects.

Work & Internship Experience:

During a 22-week internship with ***DP Architects (DPA)***, Kai Ho contributed to a high-rise residential project in Dubai as part of the architectural BIM team. Using Revit, he amended the BIM models and drawing sheets for Issued for Construction (IFC) submissions, tackled expansions and revisions involving core details for three 16-storey residential towers, and managed GFA/BUA calculations. Exposure to daily coordination with external consultants on Revizto and Revit taught him how to identify and resolve discrepancies swiftly.

Logging meeting minutes and tracking follow-up actions in Excel honed his organisational and communication skills, preparing him for professional architectural practice.

Projects & Achievements:

Kai Ho's passion for design and planning was evident in his participation in the ***Challenge for the Urban and Built Environment (CUBE) 2022***, organized by the Urban Redevelopment Authority. Collaborating with first-year classmates, he reimagined Jurong Lake District into a space fusing arts, recreation, and nature—earning a commendation award.

He conceptualised master plan ideas, produced illustrative drawings, and helped craft a physical model, learning the value of both large-scale urban perspectives and smaller-scale design refinements. Balancing critique feedback with robust design principles, he demonstrated adaptability and teamwork.



Endorsements



Kai Ho is an outstanding individual who has demonstrated exceptional skills and dedication to his training in Digital Construction. He remains composed and focused, excelling under time pressure. Beyond his Gold Medal at WorldSkills Singapore 2023, he has shown a willingness to learn from setbacks—ultimately earning a Medallion for Excellence in Lyon. His blend of self-directed learning, positive attitude, and resilience exemplify the excellence and leadership we value.

– ***Mr Khoo Kee Chai***

Senior Lecturer, School of Engineering at Nanyang Polytechnic



Kai Ho's Aspirations & Goals

Professional Pursuits:

Upon diploma completion and National Service, Kai Ho plans to further his education—ideally pursuing a bachelor's degree in architecture at either the National University of Singapore (NUS) or Singapore University of Technology and Design (SUTD). Eager for a broader runway to experiment with creative solutions, he hopes this deeper academic journey will enhance both his design-thinking approaches and technical mastery. Eventually, he envisions joining a medium or large architecture firm, taking on multi-scale projects in Singapore, and shaping dynamic public or private developments that integrate sustainability, community needs, and distinctive aesthetic appeal.

Future and Industry Impact:

In the longer term, Kai Ho aspires to champion sustainable materials and green building strategies in alignment with national goals like the Singapore Green Building Masterplan. Recognising the construction sector's significant carbon footprint, he aims to promote low-carbon alternatives—mass engineered timber, bamboo, mycelium, or improved concrete mixtures—and encourage adaptive reuse of existing structures rather than outright demolition.

By continuously researching advanced digital tools for project coordination and design, he seeks to create a built environment where ecological sensitivity, social responsibility, and efficiency intertwine seamlessly.



In Kai Ho's Voice

Kai Ho sees architecture and design as transformative instruments for societal progress, bridging pragmatic needs and environmental obligations. Another guiding principle emerged during the COVID-19 pandemic, thanks to his secondary school teacher's mantra:

"Life goes on!"

For him, these three words encapsulate the courage to push forward in tough circumstances, whether facing time constraints in Revit or managing emotional stress. He interprets them as a nudge to keep learning, keep iterating, and keep an optimistic outlook that transforms pitfalls into stepping stones for growth. By merging sincere dedication with these timeless lessons, Kai Ho prepares to leave a legacy that enriches the spaces we inhabit.

The constant pursuit of better design eventually makes us better people, solves the world's problems bit by bit, and brings more meaning to our lives.

– Kai Ho



Goh Jia Hui

Jia Hui's exceptional creativity and technical proficiency in Digital Game Art & Design have earned her a place in WorldSkills Singapore 2023. Her mastery of 2D and 3D techniques, refined through projects like the H2 Game X NYP Game Jam, demonstrates her innovative approach to game artistry. Jia Hui's dedication to crafting immersive digital experiences underscores her potential to drive Singapore's creative industry forward. By participating in this global competition, she not only elevates her personal growth but also contributes to advancing Singapore's creative industries, further solidifying our nation's position as a leader in digital innovation.

Her selection as a competitor highlights her creativity, teamwork, and potential to shape the future of game design on both local and global stages.

Competition Segment:
Creative Arts & Fashion

Specialisation:
3D Digital Game Art

Award(s):

 **WorldSkills Singapore**
2023 - Gold

 **WorldSkills Lyon, France**
2024 - Silver

Technical Competencies:

- Maya
- ZBrush
- Adobe Substance Painter
- Photoshop
- Unreal Engine

Key Accomplishments

Despite juggling school and competition demands, Jia Hui secured a **Gold at WorldSkills Singapore 2023** and **Silver at WorldSkills Lyon 2024** for **3D Game Art Design**, showcasing speed, precision, and adaptability. She also earned recognition abroad, including a Bronze at the Global Digital Skills Championship.



Education & Experiences

Educational Background:

Jia Hui's Diploma in **Digital Game Art & Design** at Nanyang Polytechnic laid the groundwork for her specialised focus on **3D asset creation**. Courses spanning **modelling, texturing, rigging, and animation** gave her end-to-end exposure to **game art production**. Balancing a hectic schedule—particularly when her WorldSkills Singapore training overlapped with Final Year Project deadlines—honed her efficiency under pressure.

Work & Internship Experience:

During an internship at **Koei Tecmo Singapore**, Jia Hui contributed to character asset creation and UI icon development as a 2D artist. Later, through a mentorship as a 3D artist, she helped prototype game characters—from modelling and texturing to rigging—immersing herself in professional pipelines and refining her collaborative approach.

These experiences taught her how to adapt quickly, manage feedback loops, and deliver high-quality work under real-world constraints.

Projects & Achievements:

Her Final Year Project and other game jam endeavours underscored her ability to **meet tight deadlines without compromising quality**. As part of her team's limited timeframe, she successfully delivered polished 3D assets, demonstrating problem-solving, adaptability, and commitment to excellence.



Endorsements



Jia Hui is a passionate digital game artist with a deep love for blending creativity and technology. Her journey began with an early fascination with digital art, which grew through her studies in Digital Game Art & Design. Jia Hui excels in 2D conceptual art, 3D modelling, sculpting, texturing, and rigging, with experience in various software tools. Her internship and involvement in collaborative projects like the H2 Game X NYP Game Jam have honed her skills in design, teamwork, and problem-solving. Jia Hui aims to become a leading game artist, creating immersive digital experiences that inspire audiences worldwide.

– **Mr. Ernest Quek**

Specialist (3D Digital Game Art) and Senior Lecturer at Nanyang Polytechnic



Jia Hui's Aspirations & Goals

Professional Pursuits:

Jia Hui envisions herself as a **3D Environment Artist**, working on immersive worlds that guide players through visual storytelling. Over the next few years, she aims to refine her artistic approach by collaborating with diverse, talented teams capable of pushing player experiences to new heights.

Motivated by **inclusivity in design**, she hopes to integrate environment cues—such as nuanced lighting and spatial layouts—that suit players of varying abilities and preferences. By capitalising on her detail-oriented eye and developing technologies, she strives to produce game environments that deeply resonate with global audiences, enriching the broader landscape of digital gaming.

Future and Industry Impact:

In time, Jia Hui also wants to leverage her expertise to champion inclusivity and innovation in the game industry. Through thoughtful environmental storytelling and user-focused design sensibilities, she aspires to help shape a gaming world that not only entertains but also fosters understanding, empathy, and cross-cultural connections.

Ultimately, her long-term vision involves creating interactive experiences that feel welcoming to everyone, uplifting player communities through shared stories and imaginative gameplay.



In Jia Hui's Voice

"Every detail tells a story." Jia Hui often reflects.

For her, **world-building** is more than an aesthetic pursuit—it's about giving players a layered narrative that unfolds with every step. As she continues her journey in **DigiPen** at Singapore's Institute of Technology (SIT), she's excited to merge creativity with technical finesse, forging memorable gaming experiences that resonate beyond the screen. Through each project, she seeks to inspire curiosity.

Every detail
tells a story.

– Jia Hui



Li Xueyi Joanne

Joanne's creativity and technical expertise in Graphic Design Technology set her apart as a top talent in branding, marketing, and illustration. Her ability to craft compelling visual narratives with precision and originality earned her a Gold Medal at WorldSkills ASEAN 2023 and a Silver at WorldSkills Lyon 2024, where she competed against top designers worldwide. Joanne's adaptability, problem-solving skills, and artistic flair position her as a future leader in the design industry.

Selected for her resilience and passion for impactful storytelling, she exemplifies Singapore's commitment to nurturing innovative talents in visual communication and branding.

Competition Segment:
Creative Arts & Fashion

Specialisation:
Graphic Design Technology

Award(s):



WorldSkills ASEAN
2023 - Gold



WorldSkills Lyon, France
2024 - Silver

Technical Competencies:

- **Adobe Illustrator**
- **Adobe Photoshop**
- **Adobe InDesign**
- **Adobe Acrobat**

Key Accomplishments

The WorldSkills journey stretched Joanne's technical and creative boundaries. Even setbacks—like underperforming test projects—never deterred her **passion for prop-building and interactive artistry**, which stoked her perseverance. She welcomed diverse cultural perspectives from fellow competitors, appreciating how universal design principles transcend languages and traditions.

Joanne has been praised for her inventive concepts and refined execution, noting how she excels under pressure by blending quirky ideas with polished, high-calibre visuals. These qualities helped her secure **Gold at WorldSkills ASEAN 2023 and Silver at WorldSkills Lyon 2024**.



Education & Experiences

Educational Background:

Joanne's early visual arts experience in secondary school prepared her for Nanyang Polytechnic. There, she strengthened her **design fundamentals**, internalising principles like grids, margins, and visual hierarchy. Her modules covering **Adobe Creative Suite (Illustrator, Photoshop, InDesign, and Acrobat)** and a third-year internship honed her technical and creative skills for industry challenges—letting her sharpen both technical prowess and creative instincts.

Work & Internship Experience:

Joanne gained valuable experience through internships at **&Larry** and **Goldwood**. At &Larry, she contributed to the DEFY INK 2024 art exhibition, producing diverse materials from **booklets and posters to social media assets and AR filters**—strengthening her conceptual thinking, client presentation skills, and sense of brand narrative cohesion.

At Goldwood, she supported **product launches for brands like Tokidoki and Sonic**, creating online marketing graphics and event posters. Her involvement in **character creation** (e.g., Mr. Merlion & Friends) broadened her retail design expertise and her ability to adapt creative concepts for various markets.

Projects & Achievements:

Joanne demonstrated her competitive mettle at **WorldSkills ASEAN 2023**, where she earned a **Gold** by displaying speed, accuracy, and storytelling across packaging, editorial, and corporate design categories.

At **WorldSkills Lyon 2024**, she achieved a **Silver**—facing off against representatives from 30 countries in a demanding series of test projects requiring conceptual clarity and resilience under tight deadlines.

Additionally, her work on the **DEFY INK 2024 art exhibition** taught her valuable lessons in maintaining brand consistency, refining client communication, and producing cohesive suites of marketing materials.



Endorsements



She is also a talented artist with a passion for drawing and illustration that set her apart. Joanne's remarkable adaptability and excellent problem-solving skills earned her selection for WorldSkills, where her precise and efficient technical capabilities stood out. As a dedicated and resilient competitor, Joanne's unwavering commitment and determination enabled her to excel, overcoming challenges and competing successfully on the global stage.

– Mr Jeffrey Lee

Coach and Deputy Manager at Nanyang Polytechnic



Joanne's Aspirations & Goals

Professional Pursuits:

Looking ahead, Joanne intends to pursue Business Administration at the National University of Singapore (NUS), aiming for roles such as project manager or marketing director. This direction merges her creative background with emerging leadership talents—something she discovered under competition time constraints and during practical work experiences.

Over the next few years, she hopes to gain further industry exposure through internships, marrying her artistic sensibility with strategic planning to guide impactful, detail-oriented design campaigns.

Future and Industry Impact:

Ultimately, Joanne aspires to shape brand narratives that strike a chord in our saturated media world. She strives for designs that go beyond aesthetics, centred on human stories that connect brands with their audiences in a deeper way. By rooting her creations in authentic messaging and user-focused experiences, she believes the design sector can foster more significant, enduring bonds—promoting both social and cultural growth.

Whether through launching campaigns, mentoring junior designers, or evolving brand identities, Joanne sees every project as an opportunity to spark positive change.



In Joanne's Voice

This personal motto underscores her belief in a balanced approach to creative excellence, where adequate rest sustains genuine performance. She also holds tight to Winston Churchill's words:

"Success is not final, failure is not fatal: it is the courage to continue that counts."

After enduring countless design tweaks, scrapped concepts, and high-pressure competitions, Joanne has learned that perseverance, coupled with a receptive mindset toward mistakes, ultimately drives genuine growth. By continually stepping forward—regardless of the end result—she steadily develops her technical proficiencies, leadership chops, and an unwavering love for design.

Work hard, play hard,
rest hard.

– **Joanne**



Victoria Cheong

Victoria's ability to transform spaces into immersive experiences showcases her deep understanding of visual storytelling, consumer engagement, and design precision. Her meticulous approach to spatial planning, colour theory, and market-driven aesthetics allowed her to craft compelling retail displays that stood out on the world stage. Her professionalism and adaptability were evident throughout WorldSkills Lyon 2024, where she remained composed under intense competition, ultimately earning a Gold and the Best of Nation Medal and having her work displayed at the WorldSkills Museum in Shanghai.

Selected for her commitment to pushing creative boundaries, Victoria is poised to shape the future of experiential and spatial design.

Competition Segment:
Creative Arts & Fashion

Specialisation:
Visual Merchandising

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Gold & Best of Nation

Technical Competencies:

- **2D Layout**
- Adobe Illustrator, Photoshop
- **3D Modelling**
- SketchUp, Rhino, and 3Ds Max
- **3D Rendering**
- V-Ray, Enscape, KeyShot
- **AutoCAD**
- **Model-making**

Key Accomplishments

WorldSkills propelled Victoria's technical and creative capabilities to new heights where she achieved a **Gold and Best of Nation** at WorldSkills Lyon 2024. Despite setbacks in practice—like underwhelming test projects, her passion for prop-making and interactive artistry never wavered, fuelling her perseverance. Meeting fellow competitors from diverse cultures broadened her design outlook and emphasised the importance of a universal design language.

Her inventive concepts and skilful execution, highlights her resilience under the demands of a four-day competition. Described as playful, bubbly, and open to exploration, Victoria excels at transforming quirky ideas into polished, high-quality solutions, reinforcing her position as a rising talent in experiential design.



Education & Experiences

Educational Background:

Throughout her polytechnic journey, Victoria explored a wide array of creative modules, from interior concepts to experiential/service design. A particularly memorable module—**Studio Project**, requiring the design of spaces for wildly unconventional personas—taught her the importance of accommodating diverse user needs and emotional triggers.

This lesson, which underscored empathy as a core design value, pushed her to move beyond traditional solutions and embrace the emotional dimension of design.

Work & Internship Experience:

Victoria's ongoing internship at **Kingsmen Creative** (in the Thematic & Museum Department) has further expanded her professional skill set. Tasked with developing thematic concepts for clients, she considers user behaviour, aesthetics, and functional requirements, ultimately refining her approach to 3D modelling, rendering, and client-facing communication.

This hands-on exposure to real projects teaches her to balance creativity with practical constraints, from budget limitations to the client's brand identity.

Projects & Achievements:

One of Victoria's crowning achievements lies in her success at WorldSkills for Visual Merchandising, where she secured **Gold at WorldSkills Singapore 2023** as well as a **Gold and Best of Nation medal at WorldSkills Lyon 2024**. This experience demanded thorough research, target market analysis, and mastery of colour theory and visual hierarchy, all of which underscored the competitive nature and high stakes of creating eye-catching retail displays.

Outside the competition arena, her consistent drive for excellence also earned her a place on the **Director's List** (across multiple semesters) and the **Edusave Certificate of Academic Achievement**.



Endorsements



I'm very proud of her for this victory and more importantly, the resilience she displayed during the arduous four-day competition. She remained calm and composed even in the face of challenges and setbacks when putting her display together.

– **Mr Wayne Oh**

Lecturer and WorldSkills Chief Expert for Visual Merchandising at Nanyang Polytechnic



Victoria's Aspirations & Goals

Professional Pursuits:

Victoria intends to further her studies at a university level, with an emphasis on spatial design. She envisions herself contributing to immersive environments—be it in retail, exhibitions, or public installations—that unify sustainability, user-centric thinking, and interactive technology. Aligning with current industry trends that champion experiential design, she aims to produce spaces that delight the senses and remain conscious of environmental impact.

Future and Industry Impact:

Determined to refine her craft and collaborate with diverse professionals, Victoria hopes to push creative boundaries while staying rooted in practical functionality. By developing user experiences that evoke emotional engagement—whether through carefully curated atmospheres or advanced digital interactions—she aspires to foster deeper connections between individuals and the environments they inhabit.

Ultimately, she sees her role as a designer extending beyond aesthetics, advocating solutions that resonate both socially and environmentally.



In Victoria's Voice

This simple mantra guards Victoria against overthinking initial ideas, reminding her that experimentation often yields unexpected insights—even if the final result isn't perfect. She also takes inspiration from Ludwig Mies van der Rohe and his belief that

"God is in the details." finding that meticulous attention to craftsmanship and carefully balanced elements can uplift even the simplest design.

By combining restraint with emotional resonance, she seeks to deliver both aesthetically beautiful and meaningfully functional spaces for those who experience them.

No harm trying.

– **Victoria**



Fong Chung Wai

Chung Wai's ability to analyse security threats, conduct digital forensics, and execute penetration testing sets him apart in Cybersecurity and Digital Forensics. At WorldSkills Lyon 2024, he demonstrated technical precision, resilience, and adaptability, earning a Medallion for Excellence and a Gold at WorldSkills Singapore 2023. His calm approach under pressure and strategic problem-solving, coupled with his strong communication skills and ability to collaborate effectively with his teammate, enabled him to tackle complex security challenges with confidence.

Selected for his passion in staying ahead of emerging cyber risks, Chung Wai is poised to make meaningful contributions to Singapore's digital security landscape, strengthening defences and driving innovation in cybersecurity.

Competition Segment:
**Information and
Communication Technology**

Specialisation:
Cyber Security (Team Event)

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Medallion for
Excellence

Technical Competencies:

- **Server Administration**
- **IT Infrastructure Management**
- **Python**
- **C#**
- **Penetration Testing**
- **SIEM Tools**
- **Memory Forensics**
- **Endpoint Artifact Analysis**
- **Network Forensics**

Key Accomplishments

Chung Wai's achievements in WorldSkills include a **Gold Medal at WorldSkills Singapore 2023** and a **Medallion for Excellence at WorldSkills Lyon 2024 (4th globally)**. These awards underscore his ability to perform under pressure and tackle complex cybersecurity challenges with precision.

At WorldSkills Lyon, Chung Wai excelled in disk and memory forensics, overcoming early setbacks to top the leaderboard. His performance highlighted his technical expertise, problem-solving skills, and collaborative mindset.

Chung Wai has consistently been commended by teachers and colleagues for his technical proficiency, dedication to learning, and professionalism, reflecting his potential to thrive in the cybersecurity industry.



Education & Experiences

Educational Background:

Chung Wai's education at Nanyang Polytechnic laid a robust foundation for his technical expertise. Modules like the Application Development Project and Application Security Project gave him a deeper understanding of web applications, enabling him to identify and address vulnerabilities effectively. These experiences enhanced his ability to conduct thorough penetration tests and security assessments with precision and insight.

Work & Internship Experience:

As a **Security Operations Center (SOC) Analyst** during his ITE internship, Chung Wai monitored and defended clients' IT infrastructure using SIEM tools like Splunk and IBM QRadar. He analysed security alerts, conducted incident investigations, and provided actionable recommendations to resolve issues. This role refined his threat detection, incident response, and communication skills, preparing him for high-pressure environments in cybersecurity.

Projects & Achievements:

One of Chung Wai's standout achievements was winning first place in the **Splunk .Conf GO Boss of the SOC (BOTS) 2023** competition. This victory reflected his ability to strategise, manage time effectively, and apply technical knowledge in high-pressure scenarios. The experience not only sharpened his Splunk proficiency but also boosted his confidence, paving the way for his success as a **Gold Medallist in WorldSkills Singapore 2023**.



Endorsements



Driven by a lifelong passion for IT, Chung Wai joined NYP's School of Information Technology after completing his studies at ITE. His enthusiasm for cybersecurity pushed him to refine his skills through rigorous competition training. His dedication and perseverance led him to earn a spot in WorldSkills Singapore, ultimately securing the chance to represent Singapore on the global stage at WorldSkills Lyon.

– **Ms Huang Wanling**

WorldSkills Expert and Senior Specialist (Cybersecurity) and Senior Lecturer at Nanyang Polytechnic



Chung Wai's Aspirations & Goals

Professional Pursuits:

Chung Wai aims to become a recognised expert in both **Penetration Testing and Digital Forensics & Incident Response (DFIR)**. Over the next few years, he envisions leading complex security assessments and incident response initiatives, contributing to organisations' resilience against evolving cyber threats. He plans to pursue certifications such as OSCP and GCFA to further deepen his expertise and expand his professional opportunities.

Future and Industry Impact:

Passionate about cybersecurity, Chung Wai is eager to address the challenges posed by the rapid shift to cloud-based infrastructure. By developing innovative tools and methodologies, he hopes to empower organisations to strengthen their security postures. His vision is to drive advancements in cybersecurity that enhance operational efficiency while safeguarding critical data and systems.



In Chung Wai's Voice

These two words capture Chung Wai's philosophy of perseverance and continuous improvement. For him, every challenge is an opportunity to learn and grow, and setbacks serve as stepping stones to success.

Inspired by Robert Collier's words,

"Success is the sum of small efforts, repeated day in and day out."

Chung Wai believes that consistent effort and a commitment to excellence are the keys to achieving long-term success. This mindset drives his passion for cybersecurity and fuels his ambition to make a lasting impact in the industry.

Try harder.

– **Chung Wai**



Jabriel Seah

Cybersecurity and Digital Forensics demand precision, adaptability, and deep technical insight—qualities Jabriel has consistently demonstrated. His ability to analyse cyber threats, investigate malware, and respond to security breaches was showcased at WorldSkills Lyon 2024, where he earned a Medallion for Excellence and a Gold at WorldSkills Singapore 2023. His ability to clearly communicate complex technical information and collaborate effectively with his teammate are essential components of his success. His composure under pressure, strategic problem-solving, and commitment to staying ahead of evolving threats position him as a talent in cybersecurity.

Selected for his expertise and drive, Jabriel is poised to contribute to strengthening Singapore’s digital resilience and shaping innovative security solutions in the ever-changing cyber landscape.

Competition Segment:
**Information and
Communication Technology**

Specialisation:
Cyber Security (Team Event)

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Medallion for
Excellence

Technical Competencies:

- **Malware Analysis**
- **Network Security**
- **SIEM Tools**
- **Windows and Linux
Hardening Skills**
- **Programming Languages**
- Python, C/C++, C#, JavaScript

Key Accomplishments

High-stakes competitions like WorldSkills Lyon 2024 tested Jabriel’s ability to keep calm under pressure. He and his partner **twice secured first place on the leaderboard**—particularly strong in incident response, memory forensics, and reverse engineering—showcasing their capability to tackle sophisticated tasks.

Lecturers and mentors at Nanyang Polytechnic often highlight Jabriel’s composed demeanour and collaborative spirit, underscoring how he **consistently makes the Director’s List while balancing formidable problem-solving with level-headedness.**



Education & Experiences

Educational Background:

Jabriel's foundation began with an O-Level computing course, establishing core programming knowledge before he enrolled in Nanyang Polytechnic. While there, he delved into network security, application security, and cryptography, strengthening his theoretical grounding in cybersecurity. He supplemented his formal education with hands-on **Capture the Flag (CTF)** participation, mastering additional areas like **reverse engineering, binary exploitation, and web vulnerabilities**.

Eager to expand his networking expertise, he also took advantage of semester breaks to complete a Cisco CCNA certificate course. Finally, preparing for WorldSkills gave him a broader perspective on cybersecurity operations, consolidating his skills into a cohesive methodology.

Work & Internship Experience:

Jabriel's internship at the **Centre for Strategic Infocomm Technologies (CSIT)** placed him in the role of a **Windows Software Researcher**. Charged with investigating malware persistence techniques, he conducted extensive research on threat actors' hidden or advanced methods. He also crafted proof-of-concept payloads in C#, reinforcing his perspective on how stealthy threats slip into systems.

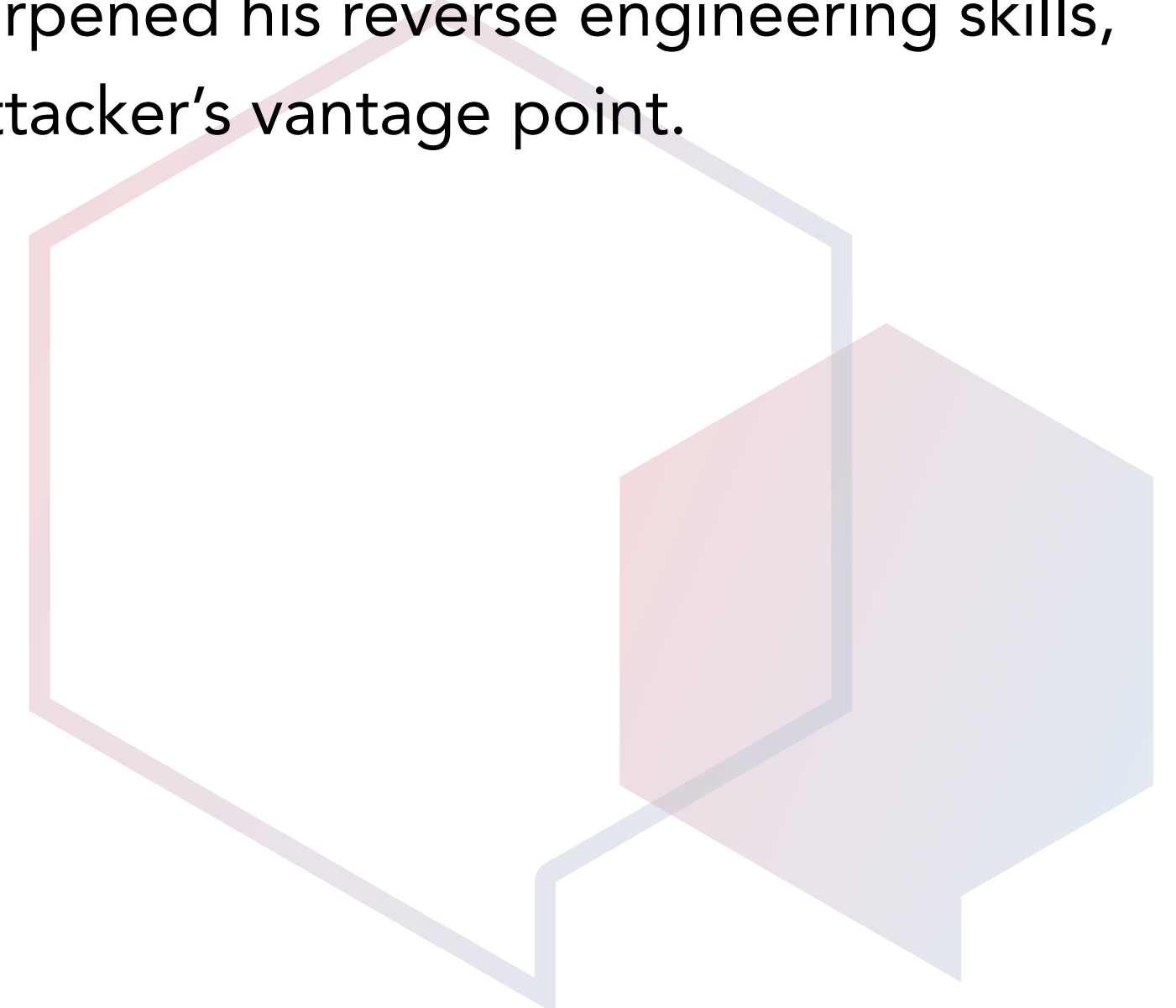
This hands-on exposure broadened his vision of real-world cybersecurity challenges, deepening his appreciation for cross-disciplinary solutions.

Projects & Achievements:

His successes include competing in WorldSkills—where he tackled red- and blue-team scenarios, hardened infrastructure, handled forensics, and carried out incident response.

Securing **Gold at WorldSkills Singapore 2023, Silver at the WorldSkills Australia Global Skills Challenge, and a Medallion for Excellence at WorldSkills Lyon 2024** underscores his aptitude for meticulous analysis and quick adaptation. On the side, he claimed **Gold at the Splunk .conf23 Boss of the SOC (BOTS)** by leveraging SIEM know-how against mostly professional cybersecurity practitioners.

Additionally, his inclination for creating CTF challenges sharpened his reverse engineering skills, providing first-hand insights into malicious code from an attacker's vantage point.





Endorsements



Jabriel has consistently excelled academically, earning the prestigious CSIT-Nanyang Scholarship. With a deep passion for cybersecurity, he thrives in tackling Capture-the-Flag (CTF) challenges. His strong teamwork with Chung Wai, his fellow cybersecurity candidate, has fostered a lasting friendship and effective collaboration in past competitions. Together, they form an ideal pair to represent the cybersecurity skills area at WorldSkills Lyon, combining their expertise and teamwork to showcase Singapore's talent on the global stage.

– **Ms Huang Wanling**

WorldSkills Expert and Senior Specialist (Cybersecurity) and Senior Lecturer at Nanyang Polytechnic



Jabriel's Aspirations & Goals

Professional Pursuits:

Looking beyond his WorldSkills triumphs, Jabriel aims to deepen his cybersecurity expertise. As he prepares for National Service, he remains committed to staying ahead of emerging cyber threats, conscious that the field never stands still. He plans to merge real-world experiences with ongoing self-improvement—eventually applying malware analysis and reverse engineering at a more advanced level, contributing to a safer digital environment.

Future and Industry Impact:

Seeing cybersecurity as a collaborative and ever-evolving field, Jabriel plans to champion knowledge-sharing and open-source solutions. By leveraging a curiosity-driven approach—always asking “how?” and “why?”—he aims to drive continuous innovation. He strives to fortify cyberspace in Singapore by integrating state-of-the-art defensive tools. Ultimately, he hopes his leadership and technical acumen will cultivate a more resilient digital ecosystem in which both defenders and users thrive.



In Jabriel's Voice

For Jabriel, each malware sample, network breach, or exploit attempt is a gateway to deeper understanding, pushing him to link **“how it's done”** with **“why it works.”**

Harnessing curiosity and steadfast practice, he continually pushes boundaries—his own and those of would-be attackers—until he discovers the most effective defence strategies. It's this mindset that fuels his desire to shape a more resilient, secure cyberspace for everyone.

Every setback is an opportunity for growth.

– **Jabriel**



Ashlee Tan

Ashlee's passion for coding and continuous learning has driven her to excel in the ever-evolving field of IT. Through her participation in the WorldSkills competition, where she achieved a Gold medal at WorldSkills Singapore 2023 and a Bronze at WorldSkills ASEAN 2023. She has honed her technical expertise, problem-solving abilities, and adaptability in high-pressure environments. Her commitment to innovation, particularly in emerging fields like artificial intelligence, positions her as a promising talent in the tech industry.

Selected for her dedication, perseverance, and technical acumen, Ashlee represents Singapore's next generation of IT professionals, ready to shape the future of digital transformation and intelligent automation.

Competition Segment:
**Information and
Communication Technology**

Specialisation:
**IT Software Solutions
for Business**

Award(s):



**WorldSkills Singapore
2023 - Gold**



**WorldSkills ASEAN
2023 – Bronze**



**WorldSkills Lyon, France
2024 - Certificate of
Participation**

Technical Competencies:

- **Programming Languages**
- C#, Python, JavaScript, Kotlin
- **Software Design &
Documentation**
- **Application Development**
- Microsoft SQL Server, Visio,
Figma, Visual Studio,
Android Studio
- **Full-Stack Development**

Key Accomplishments

Ashlee is frequently commended for her drive and maturity. Her consistent **Director's List placements** and proactive contributions to the Developer Student Club, where she inspired peers by hosting workshops and fostering an interest in IT, speak to this. Her WorldSkills participation and eventual achievement of **Gold at WorldSkills Singapore 2023 and Bronze at WorldSkills ASEAN 2023** further demonstrated her ability to prioritise, adapt to challenges, and deliver high-quality solutions under pressure. Her focus on critical features and strategic planning distinguishes her as a leader in her field.



Education & Experiences

Educational Background:

Ashlee's diploma programme at Nanyang Polytechnic provided her with a robust foundation in **software development**, complemented by rigorous training for the WorldSkills competitions. Her coursework emphasised the design and implementation of applications, time management, and collaborative problem-solving. These experiences equipped her with the technical acumen and adaptability required for success in competitive and professional environments.

Work & Internship Experience:

During her internship at **GovTech**, Ashlee worked as an **AI Engineer**, developing apps to make AI tools accessible and practical for users. Collaborating with multidisciplinary teams, she gained invaluable experience in project management, client engagement, and software lifecycle implementation. This role deepened her understanding of AI model integration, application usability, and end-user-focused design.

Projects & Achievements:

Ashlee's projects, including **GrowGreen**, a web platform connecting users with recycling resources, and **VideoIO**, a software system for training custom AI models for video content, demonstrate her ability to combine user-centric design with technical sophistication. Her achievements, a **Gold at WorldSkills Singapore** and a **Bronze at WorldSkills ASEAN**, further underscore her rapid software development skills and ability to perform under pressure.



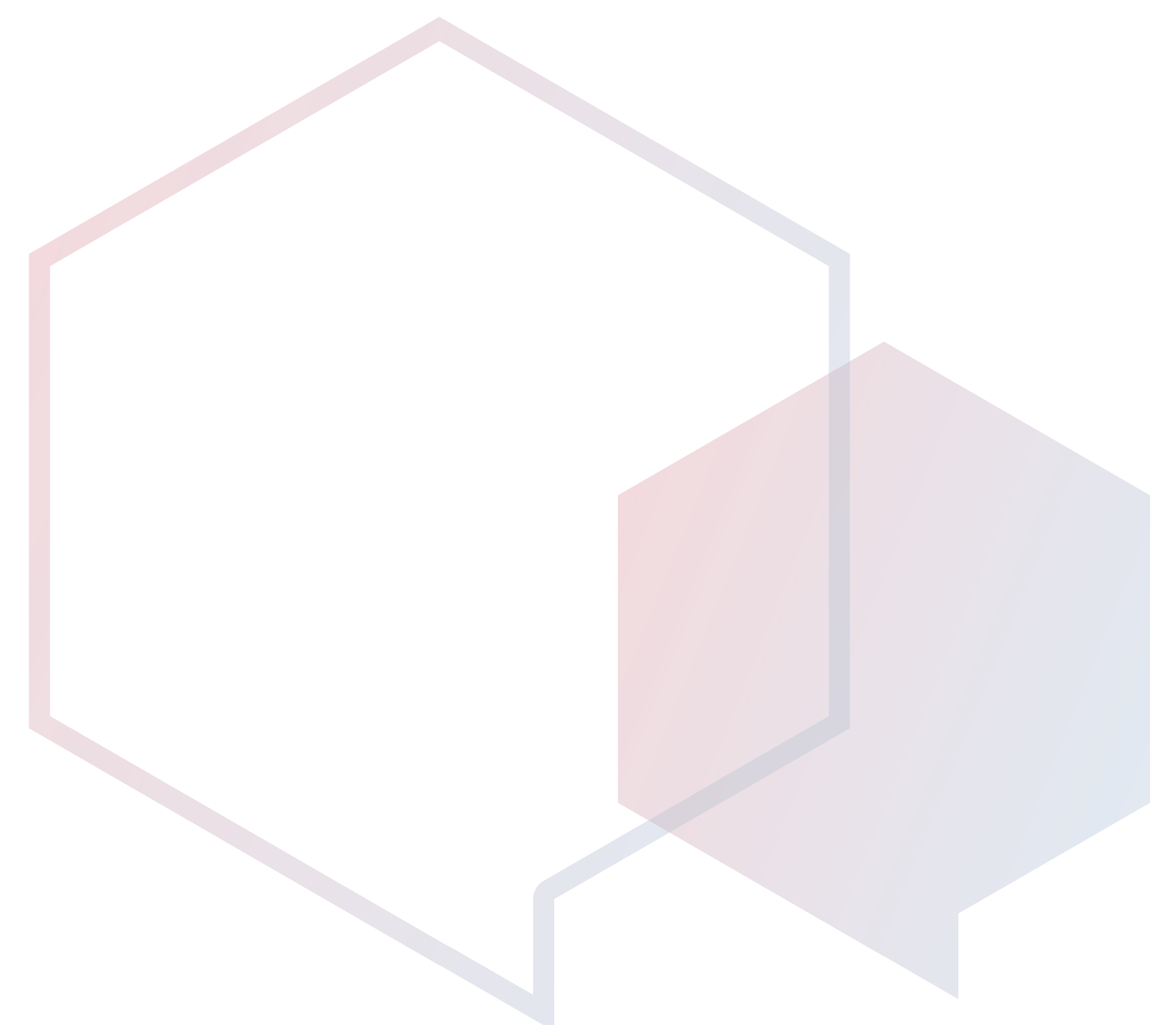
Endorsements



Despite the excellent achievement in academic study, Ashlee remains grounded and continues to strive for excellence. I am particularly impressed with the maturity and drive that Ashlee has demonstrated for the past 1 year.

– **Mr Lee Chit Boon**

Personal Mentor & Course Manager at Nanyang Polytechnic's School of Information Technology





Ashlee's Aspirations & Goals

Professional Pursuits:

Ashlee aims to specialise as a **Software Engineer in AI and IoT systems programming**. She envisions leveraging her skills to develop innovative solutions that improve lives and create meaningful impact. In the future, Ashlee aspires to contribute in a start-up to bring cutting-edge software to a global audience.

Future and Industry Impact:

Ashlee is driven to explore untapped possibilities in software development, particularly in AI-driven applications. Her vision includes creating tools that analyse vast data sets to provide predictive insights and actionable recommendations, empowering individuals and businesses to make informed decisions. Her focus on accessible and user-friendly solutions ensures technology's benefits reach a broader audience.




In Ashlee's Voice

Ashlee is also inspired by Sukant Ratnakar's words:

"Innovation is the outcome of a habit, not a random act."

This belief reflects her commitment to continuous improvement and her dedication to creating impactful and enduring innovations in the field of software development.



Technology is a tool,
but purpose gives it
power; I code to create
solutions that matter.

– **Ashlee**





Declan Isaac Kuok Li Heng

Competition Segment:
**Information and
Communication Technology**

Specialisation:
**Mobile Applications
Development**

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Certificate of
Participation

Technical Competencies:

- **Programming Languages**
- C#, Kotlin, Java, JavaScript
Rust
- **Integrated Development
Environments (IDE)**
- **Application Development**
- Android

Declan's technical acumen and problem-solving mindset make him a standout talent in Mobile Application Development. His ability to write clean, efficient code and develop intuitive user experiences reflects his deep understanding of software engineering principles. His success at WorldSkills Singapore 2023, where he won Gold in Mobile Applications Development, underscores his ability to deliver high-quality solutions under time pressure.

Selected for his passion in leveraging technology for real-world impact, Declan continues to refine his skills, aiming to develop scalable and accessible digital solutions that enhance user interactions and industry efficiency.

Key Accomplishments

Engaging in the WorldSkills Singapore competition emerged as a defining chapter in Declan's growth. He was tasked with building a fully functional mobile application in just three hours, with no internet access. This intense environment forced him to rely solely on his internal knowledge, honed problem-solving strategies, and creative thinking.

According to his mentors, Declan exemplified calm under pressure, systematically working through obstacles and showcasing reliable collaboration skills when needed. These traits—focus, resilience, and quick adaptation—underscore his readiness to tackle real-world software demands with limited resources.



Education & Experiences

Educational Background:

Declan's foundational training came from Nanyang Polytechnic, where he earned a **Diploma in Information Technology**. Core programming courses gave him diverse technical skills, while advanced modules taught robust application development.

Balancing academics with hands-on projects sharpened his problem-solving skills and built his confidence in his capacity to manage real-world challenges. This well-rounded education laid a framework that Declan continuously builds on to evolve alongside the tech industry.

Work & Internship Experience:

Declan interned at **CSIT**, where he tackled **data analytics and UX/UI chart design**—areas somewhat separate from his typical programming focus. This role pushed him to leave his comfort zone, quickly assimilating new abilities to effectively analyse data and design intuitive visual charts.

In addition to refining his adaptability, this internship heightened his appreciation for cohesive user experiences, reminding him that even seemingly peripheral tasks can deepen one's perspective on end-to-end software development.

Projects & Achievements:

Among his prominent milestones is a **Gold** victory in the Mobile Applications Development at WorldSkills Singapore, underscoring his dedication and knack for creating practical, high-quality apps in high-stakes, time-limited scenarios.

This accomplishment not only validated his developer abilities but also emphasised his aptitude for thriving under competition pressure. By merging foundational learning with an intense passion for coding, he demonstrated his capacity to deliver polished, impactful software solutions.



Endorsements



Declan is passionate about technical development and plans to pursue further studies in Computer Science. His hobbies include building custom mechanical keyboards and exploring high-fidelity headphones and earbuds. What began as a fun way to enhance his skills for his studies has evolved into a deep interest in these technical fields. Through hands-on projects, he's gained valuable experience and a strong appreciation for the intricacies of technology.

– **Mr Michael Ng**
WorldSkills Expert and Manager at Nanyang Polytechnic



Declan's Aspirations & Goals

Professional Pursuits:

As a software developer, Declan's primary goal is to deepen his technical skill set and devise scalable, meaningful solutions for real-world issues. Over the coming years, he aspires to carve out a path in big tech companies, tackling unique coding challenges and honing advanced problem-solving techniques. Through continuous learning and consistent performance, he hopes to expand his influence in the software world, merging creativity with robust engineering to address everyday problems.

Future and Industry Impact:

Declan hopes his contributions will stretch beyond mere efficiency gains—he envisions developing software that enhances user experience and accessibility for a broad audience.

Determined to foster an inclusive tech culture, he recognises that thoughtful UI/UX design can drastically affect how people interact with digital services. Whether streamlining processes in the public sector or pioneering new mobile frameworks in private enterprises, he believes strategic code can empower societies to operate more smoothly. By combining empathy and cutting-edge tools, Declan aims to help shape an industry where innovations uplift individuals, communities, and businesses alike.



In Declan's Voice

Declan's personal reminder underscores the importance of steady progress—each step, be it large or small, propels him onward. He also resonates with the line:

"It is hard to fail, but it is worse never to have tried to succeed."

— **Theodore Roosevelt**

This quote inspires him to embrace the inherent risks of software development. Though failing can be tough, he believes every attempt fosters skill-building and insight. To him, genuine growth demands perseverance, curiosity, and an open mind—even if it involves confronting setbacks head-on.

If you run,
you gain one.
If you move forward,
you gain two.

— **Declan**



Gan Kah Kheng

Kah Kheng's ingenuity and technical mastery in Autonomous Mobile Robotics set him apart as a standout competitor at WorldSkills Lyon 2024, where his team earned a Medallion for Excellence. His innovative robot designs and robust algorithms reflect his ability to tackle complex challenges with precision and creativity. His ability to work effectively with his team, share his technical expertise, and communicate clearly under pressure were crucial to his team's success. Even under immense pressure, Kah Kheng demonstrated resilience, composure, and adaptability.

Selected for his exceptional problem-solving skills and dedication to advancing robotics, he exemplifies Singapore's pursuit of excellence in automation and human-robot collaboration, paving the way for next-generation engineering solutions.

Competition Segment:
Manufacturing and Engineering Technology

Specialisation:
Autonomous Mobile Robotics (Team Event)

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills ASEAN
2023 – Bronze



WorldSkills Lyon, France
2024 - Medallion for Excellence

Technical Competencies:

- **3D Design**
- **Mechanical Assembly**
- **Programming Logic Sequences for Autonomous Systems**

Key Accomplishments

By achieving **WorldSkills Singapore 2023 Gold**, **WorldSkills ASEAN 2023 Bronze**, and a **Medallion for Excellence at WorldSkills Lyon 2024**, Kah Kheng proved his ability to excel amidst evolving challenges. His accomplishments illustrate resilience, adaptability, and technical skill—qualities that align with Singapore's pursuit of excellence in robotics and advanced manufacturing.



Education & Experiences

Educational Background:

Kah Kheng graduated from Nanyang Polytechnic in 2024, gaining a strong foundation in **robotics and mechatronics**. His coursework emphasised creative design, structured logic, and efficient resource use, all essential to complex engineering tasks.

Work & Internship Experience:

Serving as a **Technologist Developer** for WorldSkills, Kah Kheng navigated strict requirements and time-sensitive conditions. He assembled robotic components, calibrated systems, and refined controls, consistently maintaining high performance standards under competitive pressures.

Projects & Achievements:

A notable project involved crafting a "**semi self-driving car**" using basic switches, sensors, and transformers. This hands-on experience showcased his capacity to translate theory into practice, reinforcing his readiness to contribute to Singapore's advanced engineering landscape.



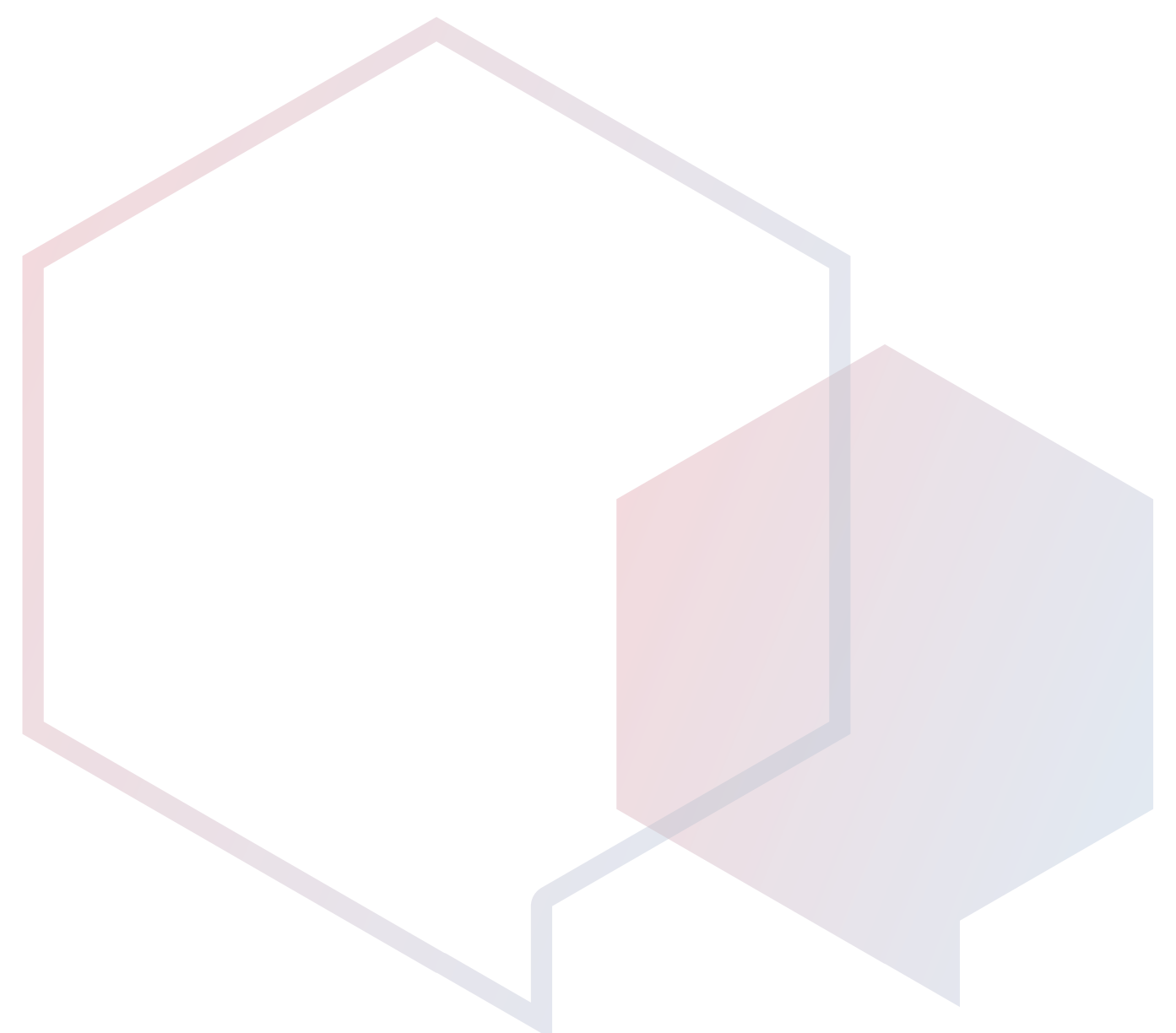
Endorsements



Kah Kheng demonstrates an outstanding capacity for agile problem-solving and technical innovation. During his intensive preparation, he continually refined robotic systems under demanding conditions, maintaining a calm and methodical approach. His perseverance and attention to detail position him as a promising contributor in this field.

– **Mr Kannappan**

Manager at Nanyang Polytechnic's School of Engineering





Kah Kheng's Aspirations & Goals

Professional Pursuits:

Kah Kheng plans to pursue ***Mechanical Engineering with a 2nd major in Data Analytics*** at Nanyang Technological University as well as a Master's degree and a PhD, further enhancing his analytical capabilities and expanding his technical range. He aims to refine humanoid systems that enhance operational efficiency and inspire richer human-robot collaboration.

Future and Industry Impact:

Focusing on humanoid innovations and adaptable automation, Kah Kheng aspires to support Singapore's reputation as a technological leader. By championing sustainable practices, improved productivity, and next-generation robotics, he hopes to help shape a future where advanced engineering solutions contribute positively to both industry development and social progress.



In Kah Kheng's Voice

Kah Kheng's perspective is influenced by the philosophy of embracing uncertainty to find meaning. He believes that impactful ideas begin small and evolve through dedicated effort.

Guided by this mindset, he approaches robotics with resilience and openness, ready to transform inventive concepts into practical outcomes. This outlook supports Singapore's vision for innovation, reinforcing his role as an emerging talent prepared to meet the challenges of tomorrow's engineering landscape.

We are free to create our own meaning and live authentically, embracing the chaos with courage.

– Kah Kheng



Genisa Gabrielle Lee

Genisa's exceptional skill and innovative mindset in Autonomous Mobile Robotics earned her a Medallion for Excellence at WorldSkills Lyon 2024. Her ability to design compact, fit-for-purpose solutions, combined with her resilience and composure under pressure, showcases her technical expertise and adaptability, while her strong communication and teamwork skills allowed her to effectively collaborate with her teammate. Genisa's commitment to refining her designs and overcoming challenges with persistence highlights her problem-solving acumen and collaborative spirit.

Selected for her dedication to excellence and creative problem-solving, Genisa exemplifies Singapore's drive to lead in engineering innovation, fostering practical solutions that simplify and enhance everyday life.

Competition Segment:
**Manufacturing and
Engineering Technology**

Specialisation:
**Autonomous Mobile
Robotics (Team Event)**

Award(s):



WorldSkills Singapore
2023 - Silver



WorldSkills Lyon, France
2024 - Medallion for
Excellence

Technical Competencies:

- 3D Modelling
- Autodesk Inventor
- Python
- 3D Printing Post-Processes

Key Accomplishments

Genisa encountered significant tests to her resilience while engaging in Autonomous Mobile Robotics competitions. Initially facing design tasks that appeared straightforward but evolved into unexpected complexities, she found herself adapting swiftly under tight schedules. Team communication also proved challenging, yet she drew on her partner's strengths—and vice versa—to close gaps. By persevering, she cultivated an even deeper appreciation for collaboration in engineering. In recognition, she earned a **Medallion for Excellence at WorldSkills Lyon 2024**, and instructors commended her proactive problem-solving, reliability, and punctuality—attributes translating seamlessly into cooperative environments beyond the competition stage.



Education & Experiences

Educational Background:

While pursuing her **Engineering with Business** diploma at Nanyang Polytechnic, Genisa acquired foundational skills in drawing and **3D modelling, programming, and communication/public speaking**. By taking courses on product design and evaluation, she strengthened her capacity for conceptualising designs, while group-based assignments cultivated her teamwork and communication prowess—critical elements for pitching and executing ideas effectively.

Work & Internship Experience:

Instead of a conventional industry internship, Genisa immersed herself in **product development training**, devoting time to designing and reverse-engineering 3D-printed products. This hands-on period honed her problem-solving strategies, as she encountered minor mechanical issues that required consistent iteration to fix. The experience also highlighted the importance of systematic workflows in ensuring consistent results.

Throughout, she discovered how building on small successes and learning from errors cultivates perseverance and practical creativity.

Projects & Achievements:

Standing out among her endeavours is the Final Year Project, which required her to create a custom robot design fulfilling precise technical criteria. She presented this to faculty directors, ultimately receiving a distinction that reflected her balance of conceptual thinking and methodical execution.

Though the project tested her ability to work under pressure—navigating design constraints, meeting deadlines, and incorporating instructor feedback—it reinforced her technical versatility and confidence in her growth potential.



Endorsements



Genisa demonstrated exceptional skill and resilience during the WorldSkills Competition 2024. With deep knowledge of the standard kit components, she excels at creating and modifying designs that are compact, easy to assemble, and fit for purpose. She works effectively under pressure, managing stress and distractions with composure. Her persistence in overcoming challenges, coupled with her strong problem-solving abilities, allowed her to contribute significantly to the team's success, showcasing both technical expertise and resilience.

– **Mr Kannappan**
 Manager at Nanyang Polytechnic's School of Engineering



Genisa's Aspirations & Goals

Professional Pursuits:

Looking forward, Genisa envisions a path ***merging entrepreneurship with AI-focused studies***. By tackling widespread pain points—whether through consumer products or innovative software—she aims to refine her skills within industry settings that fuel further project iterations. Harnessing her engineering and business acumen, she strives to build solutions that meaningfully enhance daily life. Over the next few years, she plans to explore internships and collaborations that balance creativity with commercial viability, positioning her to address practical problems with empathic design and cutting-edge technology.

Future and Industry Impact:

Genisa believes that a fusion of technical innovation and human-centric design can foster more inclusive technologies, particularly for those with unique needs or challenges. She hopes to champion solutions that streamline tasks yet preserve vital human connections. By maintaining the same resilience and open-mindedness that drove her through competition training, Genisa seeks to bring empathy to the forefront of modern tech—encouraging a culture of warmth, efficiency, and authenticity in the industry.



In Genisa's Voice

This simple reminder underpins Genisa's trust in embracing each chance—be it a competition, project, or internship—as a stepping stone worthy of her time. She also draws inspiration from George Bernard Shaw's assertion:

"Life is not about finding yourself. Life is about creating yourself."

For Genisa, authentic fulfillment requires active shaping of one's path—whether designing the next practical invention, founding a new venture, or adapting to a changing tech landscape. Each challenge, relationship, and success story becomes an opportunity to build a life woven with purpose and continuous growth.

Opportunities would not have come your way if you didn't deserve it.

– **Genisa**



Lee Zheng Han

Zheng Han has demonstrated exceptional resilience, quick problem-solving, and advanced technical skills in Mechatronics, earning him a Medallion for Excellence at WorldSkills Lyon 2024. His ability to integrate electrical and pneumatic systems, troubleshoot complex assemblies, and excel under pressure highlights his aptitude for factory automation and precision engineering.

His strong collaborative spirit and ability to communicate effectively with his teammate were also instrumental in his success. Selected for his sharp analytical thinking, collaborative spirit, and commitment to continuous improvement, Zheng Han embodies Singapore's drive to innovate in advanced manufacturing. His journey reflects not only his technical mastery but also his potential to lead and contribute to the next generation of sustainable engineering solutions.

Competition Segment:
Manufacturing & Engineering Technology

Specialisation:
Mechatronics (Team Event)

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Medallion For Excellence



Valedictorian for Diploma in Mechatronics 2024

Technical Competencies:

- **Electrical Circuit Design & Implementation**
- **Pneumatic Systems**
- **PLC Programming**
- **System Optimisation**

Key Accomplishments

In the lead-up to WorldSkills, Zheng Han encountered a multitude of tasks ranging from **advanced system assembly to servo motor troubleshooting**. He and his partner meticulously planned each day's workflow, adjusting strategies when confronted with unfamiliar systems or lost time. For instance, an elusive servo motor misalignment forced them to spend a night brainstorming a new troubleshooting method—an investment that ultimately yielded success.

Despite the hurdles, they **consistently met deadlines** while delivering high-calibre results, earning them a **Medallion for Excellence at WorldSkills Lyon 2024**. Praising this resilience, their coach remarked how Zheng Han's calm composure and collaborative drive were essential ingredients in surpassing global competition expectations.



Education & Experiences

Educational Background:

During his time at Temasek Polytechnic, Zheng Han dived deeply into **electrical, pneumatic, and mechanical systems**. He further enhanced his leadership and decision-making abilities by participating in **LEAD**, a programme that emphasised critical thinking—crucial for executing mechatronics projects.

This comprehensive training laid a strong foundation for his future endeavours, from setting up circuit assemblies to refining complex automation strategies.

Work & Internship Experience:

Zheng Han gained valuable industry exposure at **Excel Marco and UCT (Asia Pacific)**, where he shadowed senior technicians involved in assembling semiconductor wafer cleaning machines and commissioning automation control servers. Observing industry-level methodologies, he learned to apply **systematic mechanical design** principles, engaged in hands-on problem-solving, and performed thorough testing under real-world conditions.

This practical immersion refined his professional outlook, reinforcing lessons from his polytechnic curriculum and competition training.

Projects & Achievements:

Zheng Han's progress in WorldSkills Singapore exemplifies his growth. Initially facing challenges in Phase 1, he improved his teamwork, assembly, testing, and troubleshooting skills by learning from his seniors in school and analysing other competitors' performance—eventually achieving Gold in Phase 2. Beyond competitions, he participated in the **LEAD** programme, where he led a group of delegates to the **Humanitarian Affairs Global Peace Summit**, engaged in dialogues with policymakers, and worked on workshops addressing social and security issues.

These experiences broadened his leadership capabilities and sharpened his communication skills, further demonstrating his readiness to handle multifaceted tasks within engineering contexts.



Endorsements



Zheng Han is known for his quick wit, resilience, and exceptional mechanic skillset and abilities. His sharp problem-solving skills and ability to think on his feet allow him to tackle challenges efficiently and effectively. With a strong foundation of technical competence, Zheng Han excels under pressure. His passion, determination and commitment to excellence make him a standout competitor.

– **Mr Lo Ray Hwee**

WorldSkills Coach and Lecturer, School of Engineering at Temasek Polytechnic



Zheng Han's Aspirations & Goals

Professional Pursuits:

As a **Singapore Industries Scholarship** recipient bound to **GE Aerospace** post-studies, Zheng Han aims to refine his technical and leadership skills under the mentorship of veteran engineers.

By immersing himself in **aerospace and automation** best practices, he envisions fostering a collaborative atmosphere where young engineers can thrive. He seeks to unite his knowledge of **advanced manufacturing techniques** with hands-on mechanical design, consistently pushing for innovations that ease daily tasks and elevate industry standards.

Future and Industry Impact:

By developing **factory automation** processes that enhance efficiency, worker safety, and environmental sustainability, Zheng Han strives to tackle the fundamental challenges confronting modern production lines. Recognising the potential of additive manufacturing and data-driven analytics, he believes mechatronics will prove pivotal for next-generation manufacturing.



In Zheng Han's Voice

For Zheng Han, these words capture the core of his approach—one that balances teamwork, meticulousness, and an openness to continuous improvement.

He often recalls the phrase **"Better late than never."** reminding himself that obstacles serve as catalysts for new perspectives and emerging possibilities.

Armed with these guiding principles, he's set on harnessing automation and innovation to shape a more productive, sustainable future for mechatronics.

Embrace every challenge with resilience, learn with gratitude, and communicate with purpose. Know your priorities, respect everyone, and remember: it's never too late to grow.

– **Zheng Han**



Matthew Francis Thanarajoo

Matthew exemplifies collaborative spirit, resilience, and technical mastery in Mechatronics, earning him a Medallion for Excellence at WorldSkills Lyon 2024 and a Gold at WorldSkills Singapore 2023. His ability to integrate mechanical, electrical, and programming systems reflects his deep expertise and dedication to innovation, honed through effective communication with his teammate. Overcoming challenges with determination, including competing through physical adversity, Matthew has shown exceptional leadership and a talent for fostering productive collaboration.

Selected for his technical proficiency and commitment to excellence, he embodies the values of WorldSkills, shaping the next generation of mechatronics talent while driving advancements in automation and robotics.

Competition Segment:
Manufacturing and Engineering Technology

Specialisation:
Mechatronics (Team Event)

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Medallion for Excellence



Tay Eng Soon
Gold Medal Award

Technical Competencies:

- PLC Programming
- 3D Printing
- 3D CAD Design
- Microcontroller Programming

Key Accomplishments

During one of his most taxing moments—a fractured leg sustained just a day before the WorldSkills Singapore competition—Matthew’s resolve to push through adversity shone through. Determined not to let down his teammate after months of gruelling practice, he competed despite physical pain and emotional strain. This unwavering commitment highlights the resilience and collaborative spirit that continue to define his approach.

Praised for his adaptability and calm demeanour, Matthew’s ability to balance intense training with high academic performance, earned him a **Gold at WorldSkills Singapore 2023 and a Medallion for Excellence at WorldSkills Lyon 2024.**



Education & Experiences

Educational Background:

Matthew's journey in mechatronics spans approximately eight to nine years, beginning at the Institute of Technical Education (ITE) before continuing to Polytechnic. While at ITE, an introduction to 3D printing sparked his interest in practical creation, prompting him to embrace **hands-on manufacturing methods**.

Later, at Temasek Polytechnic, he delved into **robotics and programming**, strengthening his understanding of machine design and control mechanisms. Participating in WorldSkills further refined these skills, allowing him to master advanced programming techniques and tackle complex system integration.

Work & Internship Experience:

Rather than taking a traditional internship path, Matthew coached the **Junior WorldSkills Mechatronics Team** after graduating. This shift from competitor to mentor allowed him to observe the competition's structure from a new perspective. He devoted substantial time to training schedules, guiding upcoming participants, and sharing the discipline required for rigorous skill refinement.

This coaching experience provided valuable insights into strategic planning, time management, and resilience under competition pressures—expertise he now imparts to his trainees.

Projects & Achievements:

Across his educational and competitive pursuits, Matthew has garnered several accolades. He earned a **Gold Medal in his diploma course**, as well as the **Tay Eng Soon Gold Medal Award**, and triumphed at WorldSkills Singapore with a **Gold in Mechatronics**, later achieving a **Medallion for Excellence** on the global stage at WorldSkills Lyon 2024.

Alongside these competitions, he took on leadership roles, notably acting as President of the Engineering Makers Group and Vice President of the Society of Mechatronics Engineers—these positions honed his teamwork, problem-solving, and leadership capabilities.



Endorsements



Known for his ability to support his partner and an excellent team-player, Matthew is a competent competitor who is able to work under pressure. His resilience and adaptability enable him to overcome challenges, while his deep knowledge and refined skills sets him apart with his peers. Matthew is committed to excellence, embodying the spirit of WorldSkills on every level.

– **Mr Lo Ray Hwee**

WorldSkills Coach and Lecturer at Temasek Polytechnic's School of Engineering



Matthew's Aspirations & Goals

Professional Pursuits:

After furthering his studies at Nanyang Technological University (NTU)'s Electrical & Electronic Engineering, Matthew aims to join an **automation-focused career**, channelling his mechatronics experiences toward streamlining daily tasks and boosting operational efficiency. He intends to use robotics and machine design to minimise routine labour, freeing workers for more meaningful roles. Grounded in the lessons from WorldSkills and years of practical mechatronics training, he hopes to apply strategic design to shape cutting-edge automation solutions.

Future and Industry Impact:

Driven by a collaborative mindset, he emphasises creativity and ethical responsibility in automation—ensuring that machines serve people without eroding human dignity. By iterating on novel mechatronics solutions and advocating for continued skill refinement, he envisions an industry where innovation and empathetic leadership enable long-term progress.



In Matthew's Voice

This succinct mantra underpins Matthew's willingness to venture into new areas—whether it's a complex programming routine or a demanding mechatronics build. He firmly believes that dedication and hard work make any concept surmountable, particularly in a field he genuinely loves.

By allotting whatever time and resources necessary, he trusts that perseverance and an open mind lead to breakthroughs, positioning him to pass on these lessons as he coaches the next generation of mechatronics enthusiasts.

If others can,
so can I.

– **Matthew**



Sim Wee Sean

Sean's exceptional proficiency in Robot System Integration earned him the honour of representing Singapore on the global stage at WorldSkills Lyon 2024. His technical competence, resilience, and meticulous attention to detail set him apart as a standout talent in the manufacturing industry. Sean's ability to integrate robotic systems with precision and efficiency highlights his problem-solving acumen and dedication to continuous improvement. His ability to effectively communicate technical details and collaborate within a team environment further strengthens his contributions.

Selected for his drive and commitment to excellence, Sean embodies Singapore's pursuit of innovation, contributing to the advancement of smart manufacturing and engineering solutions.

Competition Segment:
Manufacturing and Engineering Technology

Specialisation:
Robot Systems Integration (Team Event)

Award(s):



WorldSkills Lyon, France 2024 - Certificate of Participation



Forevertrust International (S) Project Prize

Technical Competencies:

- **MATLAB**
- **CAD Software**
- **ROBOGUIDE**
- **RGModeler**
- **Human-Machine Interfaces (HMIs) via Microsoft Sharepoint**
- **Python**
- **C Programming**

Key Accomplishments

By venturing into WorldSkills competitions under Robot System Integration, Sean refined his ability to design, simulate, and troubleshoot complex robotic tasks. Faced with tight timelines and rigorous criteria, he and his partner tested various solutions until they found the ideal balance between speed, stability, and user experience.

Through these challenges, Sean has shown a knack for fusing technical mastery with an eagerness to learn, setting the stage for lasting contributions in engineering and automation.



Education & Experiences

Educational Background:

During his diploma program, Sean honed technical and professional skills essential for the biomedical and robotics fields. Foundational modules in **Python and C** cultivated sequential thinking, which he later applied to planning, programming, and implementing robotics operations.

Notably, a course on **Medical Devices** honed his research and reporting skills, proving vital for competition training enabling him to gather relevant information and incorporate best practices for optimised robotics solutions.

Work & Internship Experience:

During a recent internship, he developed software and interfaces for industrial robotics, coding motion and simulation programs to ensure failproof outcomes. Stepping into the public eye at events like **Temasek Polytechnic Open House and Tech Show**, he showcased innovative robotic technologies, improving his networking skills and building valuable industry contacts.

This blend of technical coding, practical problem-solving, and outreach underscores his readiness to excel in high-tech and collaborative environments.

Projects & Achievements:

Among his many projects, a collaboration to showcase novel uses for an industrial robotic arm stands out. From a claw machine that awarded prizes to an automated snack-and-beverage dispenser, these creative endeavours demonstrated his aptitude for automation system design. Fine-tuning the robot's movements, speed, and programming solidified his meticulous approach and resilience in problem-solving.

Earning his course's project prize award for robot systems integration, Sean highlighted his evolution from zero robotics background to implementing industrial-scale automation solutions, reflecting determination and technical proficiency.



Endorsements



Sean's academic and extracurricular growth at Temasek Polytechnic has been remarkable. Alongside earning a place on the Director's List for two consecutive years, he excelled in collaborative team projects by demonstrating clear communication, leadership, and inventive problem-solving. His triumph in an in-house Robot System Integration competition qualified him to represent Singapore in Lyon, showcasing his capacity for self-directed learning and resilience.

– **Mr Raymond Wong**

Principal Coach and Manager at Temasek Polytechnic's School of Engineering



Sean's Aspirations & Goals

Professional Pursuits:

Sean's main career objective is to advance global healthcare by creating technologies that enhance doctors' capabilities and, ultimately, patient outcomes. He plans to combine his biomedical expertise and proficiency in robotic integration to develop or refine medical devices that seamlessly address complex healthcare needs. Over the next few years, he sees himself applying these skills in hospitals or robotics-driven industries, focusing on design improvements for medical devices or automation systems that streamline healthcare processes.

He's also keen on engaging in biomedical research, investigating novel solutions for persistent industry challenges—aligning with trends that incorporate robotics, artificial intelligence, and data analytics into healthcare delivery.

Future and Industry Impact:

Looking beyond immediate career steps, Sean aspires to promote an industry culture that champions precision, safety, and patient-centric innovation. By tackling issues in existing medical technology and streamlining diagnostic or therapeutic workflows, he envisions raising the quality and efficiency of healthcare worldwide.

Whether consulting on global device standardisation or leading R&D efforts in specialised labs, he aims to harness robotics and biomedical engineering to create more user-friendly and effective clinical environments. In doing so, he hopes to spark a new wave of inventions that not only expedite care but also revolutionise patient experiences for the better.



In Sean's Voice

This personal creed underscores Sean's commitment to tackling each project and challenge with intentionality and a forward-looking attitude. Another guiding principle comes from a cherished quote he learned from his commander:

"FAIL is simply an acronym for 'First Attempt In Learning.'"

Viewing setbacks as gateways to growth, he came to embrace trial-and-error during his WorldSkills Robot System Integration training, discovering that self-directed learning, creativity, and perseverance form the bedrock of true engineering progress. By tackling tasks without fear of failure, he propels himself toward innovation, resilience, and a lasting contribution to both biomedical technology and robotics.

We are free to create our own meaning and live authentically, embracing the chaos with courage.

– Sean



Zane Lim Wei Zheng

Zane has showcased remarkable expertise in Robot System Integration, a critical skill for advancing Singapore's manufacturing industry. A graduate from Temasek Polytechnic with a Diploma with Merit in Electronics, Zane applies his expertise in circuit design, system integration, and robotics programming to tackle real-world challenges. His hands-on experience with robotic arms and innovative projects highlights his technical competence and creativity. His strong teamwork and communication skills allow him to effectively collaborate with his teammate on complex projects, contributing to successful outcomes.

Selected for his resilience, teamwork, and commitment to excellence, Zane embodies Singapore's vision for driving innovation in robotics and automation.

Competition Segment:
Manufacturing and Engineering Technology

Specialisation:
Robot Systems Integration (Team Event)

Award(s):



WorldSkills Lyon, France
2024 - Certificate of Participation



Lumileds Singapore Course
Bronze Medal

Technical Competencies:

- **Circuit Design**
- **Electronics Prototyping**
- **System Integration**
- **Eagle for PCB Design**
- **MATLAB**
- **CAD Software**
- **C Programming**

Key Accomplishments

One of Zane's most significant achievements was successfully completing a project at WorldSkills Lyon 2024, affirming his ability to manage time and perform under pressure. While initially inclined to work independently, Zane recognised the value of collaboration and made deliberate efforts to enhance communication and teamwork with his partner. This mindset shift enabled them to streamline project planning and workload distribution, reinforcing his growth in both technical and interpersonal skills.



Education & Experiences

Educational Background:

Zane's education at Temasek Polytechnic laid a solid groundwork for his technical and professional growth. Through courses in **sensor technologies and electronic systems**, he honed his problem-solving skills and applied theoretical concepts to practical projects, setting the stage for success in his field.

Work & Internship Experience:

During his internship, Zane collaborated in a two-person team to operate a 6-joint robotic arm. His role involved installing parts, optimising motion paths, and troubleshooting performance issues. This hands-on experience deepened his understanding of hardware-software integration and emphasised the importance of precision and problem-solving in robotics.

Projects & Achievements:

Zane's notable projects include programming an industrial robotic arm for interactive tasks like distributing beverages and simulating a claw machine for public engagement. These projects demonstrated his ability to merge robotics programming and system integration, enhancing both his technical acumen and creative problem-solving. His dedication and innovative approach underscore his readiness to excel in robotics and system automation.



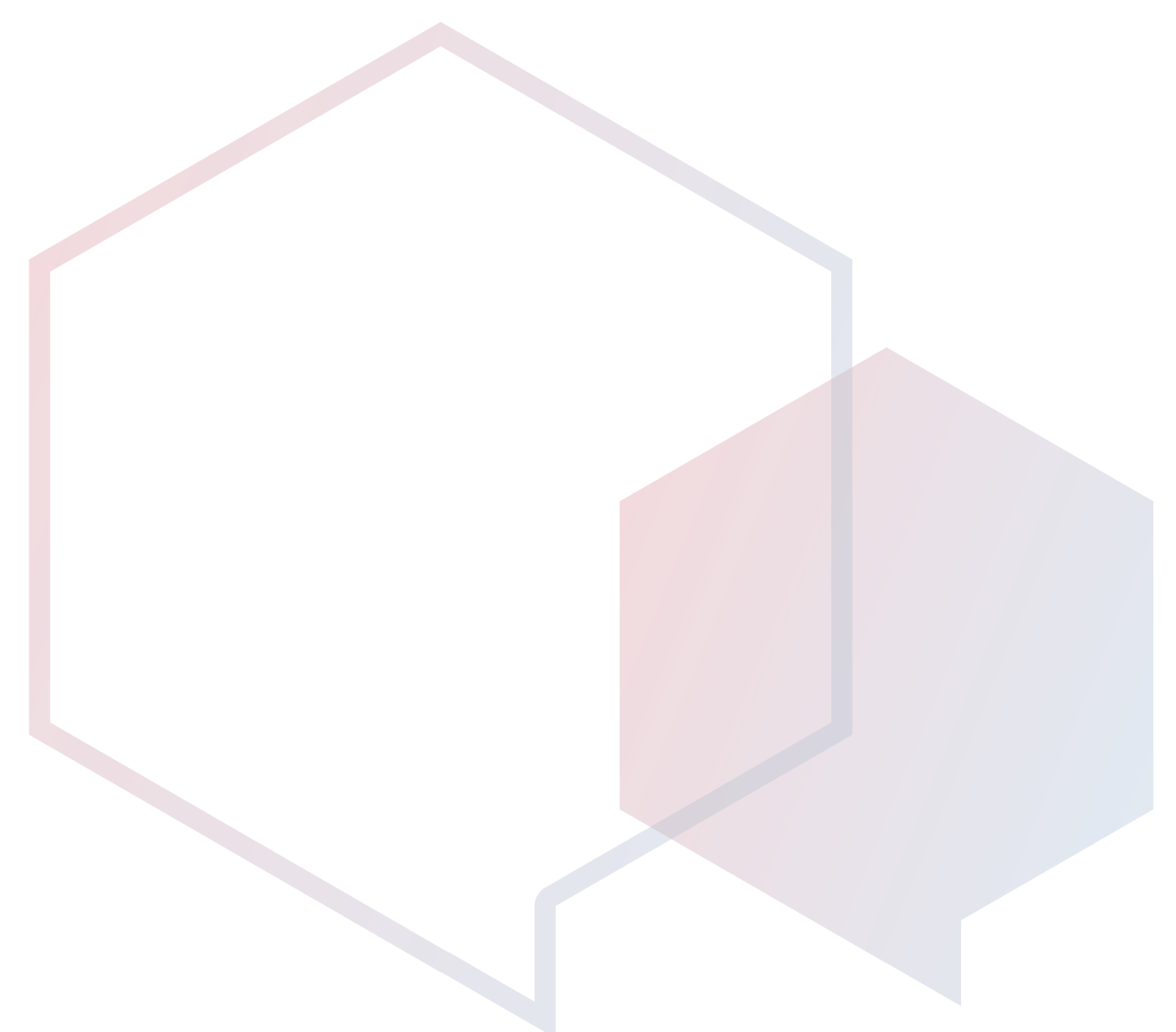
Endorsements



Zane Lim has consistently demonstrated exceptional academic abilities throughout his diploma programme and has been recognised for his achievements, earning a place on the Director's List for two consecutive years. He has showcased excellent teamwork skills by collaborating closely with his peers to achieve project milestones, contributing innovative ideas during discussions, and demonstrating problem-solving abilities.

– **Mr Raymond Wong**

Principal Coach and Manager at Temasek Polytechnic's School of Engineering





Zane's Aspirations & Goals

Professional Pursuits:

Zane envisions contributing to the engineering field by leveraging his technical expertise and real-world experience. His goal is to advance in the robotics industry, developing innovative solutions and integrating cutting-edge technologies to address complex challenges in various sectors.

Future and Industry Impact:

Believing in the transformative potential of robotics across industries, Zane aspires to design technologies that boost productivity and enhance operational efficiency. By creating solutions that improve accessibility and streamline processes, he hopes to drive innovation and positively impact industries, communities, and lives worldwide.



In Zane's Voice

For Zane, this philosophy encapsulates his dedication to learning, collaboration, and innovation. Guided by Theodore Roosevelt's words,

"Believe you can, and you are halfway there."

Zane approaches each challenge with confidence and persistence, embodying the resilience and determination needed to thrive in the evolving world of robotics and automation.

Pursue
what truly fuels
your heart, and let every
challenge remind you that you
are one step closer to solving
the problems that matter. The
journey will be tough, but your
passion will always light up the
way.

– Zane



Calista Abella Ang

Abella's exceptional proficiency in chemical analytical techniques and organic synthesis earned her recognition at WorldSkills Chemical Laboratory Technology 2024. Her ability to handle complex tasks with focus and an agile mindset reflects her technical expertise and resilience under pressure. Abella's commitment to precision and innovation, honed through rigorous training and practical experience, positions her as a standout talent in the energy and chemical industries.

Selected for her passion, problem-solving skills, and dedication to excellence, Abella embodies Singapore's drive to lead in advanced chemical solutions and sustainable innovation.

Competition Segment:
**Manufacturing and
Engineering Technology**

Specialisation:
Chemical Lab Technology

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Medallion for
Excellence

Technical Competencies:

- **UV-Vis Spectrophotometer**
- **High-Performance Liquid Chromatography (HPLC)**
- **Gas Chromatography (GC)**
- **Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)**
- **Mass Spectrophotometer (MS)**

Key Accomplishments

Abella's ability to adapt to unfamiliar tasks by drawing upon her knowledge of chemical principles, showcasing her critical thinking skills. The WorldSkills competition, where she earned a **Gold at WorldSkills Singapore 2023 and a Medallion for Excellence at WorldSkills Lyon 2024** also provided Abella with the opportunity to engage with peers from diverse cultural backgrounds, broadening her understanding of experimental techniques. This international exchange enhanced her communication style and reinforced her commitment to collaborative research.



Education & Experiences

Educational Background:

At Singapore Polytechnic, Abella built a solid grounding in **analytical instrumentation**, **foundational chemistry**, and laboratory practices. Modules such in Further Chemistry deepened her understanding of spectroscopy while thermodynamics broadened her knowledge of particle behaviour.

She also participated in **“Uncommon Chemistry,”** a collaborative project with the School of Media, Arts & Design, where she designed scientific experiments and the media students filmed them. This unconventional synergy showed her that how chemistry can intersect with media, public outreach, and creative expression. Additionally, serving as a peer mentor honed her leadership abilities, by guiding junior students and fostering a positive academic environment.

Work & Internship Experience:

During her internship at **A*STAR’s Institute of Molecular and Cell Biology**, Abella operated histology machines to stain tissue samples for cancer diagnosis. Managing hundreds of cases daily underscored how instrumental precise lab results are in patient outcomes.

Integrating biology, chemistry, and computational analysis in diagnostics spurred her respect for interdisciplinary collaboration, teaching her that even though her work revolved around cellular biology, concepts from chemistry and computer algorithms played pivotal roles in the diagnostic chain.

Projects & Achievements:

In addition to her main duties, Abella mastered the lab's multiplex immunohistology autostainer, a complex machine, and trained subsequent interns on its use, increasing lab efficiency. This proactiveness earned her a **Distinction in her internship** (awarded to only the top 10% of her cohort) and the **MOE Edusave Skills Award 2024**.

Furthermore, she obtained a **Certificate in Analytical Instrumentation and Laboratory Techniques**, confirming her aptitude in calibrating glassware and operating advanced instruments, from FT-IR to Thin-Layer Chromatography (TLC).



Endorsements



Ms Calista Abella Ang has demonstrated outstanding proficiency in various chemical analytical techniques and organic synthesis, which are critical skillsets in today’s evolving chemical laboratory landscape. She stands out for having the resilience, confidence and ability to handle complex tasks in this skill area where her focus and agile mindset helped her thrive in this fast-paced environment. Her achievement for this competition reflects her practical knowledge and passion about making an impact in the energy and chemical industries.

– **Mr Tan Tiong Wei**

Coach and T&L Mentor at Singapore Polytechnic’s School of Chemical and Life Sciences



Abella's Aspirations & Goals

Professional Pursuits:

Abella's principal career aspiration is to deepen her **commitment to chemistry**, leveraging her WorldSkills and A*STAR experiences to explore sustainable chemical processes, diagnostic instrumentation, and advanced materials. By capitalising on her current university modules—especially those covering Python and data analysis—she aims to prepare for interdisciplinary work. Over the next few years, she intends to apply her growing scientific knowledge in industrial or lab-based settings, honing her problem-solving and adaptability while making incremental advances in chemistry-driven fields.

Future and Industry Impact:

Abella envisions championing breakthroughs addressing urgent global concerns—be it environmentally friendly chemical practices or cutting-edge diagnostic tools. With unwavering dedication to collaboration and innovation, she hopes to serve as a chemist who merges deep theoretical understanding with forward-looking, practical research.

In her eyes, forging cross-disciplinary partnerships and refining lab practices can accelerate the scientific community's progress, building a more sustainable and informed future for humanity.



In Abella's Voice

This principle, crystallised by her WorldSkills experiences, urges Abella to trust her preparation and remain poised under pressure. Just as she meticulously executes lab procedures based on well-refined techniques, she embraces a broader philosophy of learning from each project, convinced that consistent, devoted effort leads to tangible outcomes. At the same time, she remains guided by her coach's wisdom:

"Compete with heart, strive to surpass the person you were yesterday, and enjoy every moment of the experience."

To Abella, these words neatly capture the essence of growth—balancing passion with persistence, taking on new challenges, and cherishing every step of the scientific journey.

I believe in completing every task intentionally and with clarity of mind.

– Abella



Low Jia Xin

Jia Xin's exceptional adaptability and technical precision set her apart as a standout talent in both advanced manufacturing and computer science. Graduating top of her diploma cohort in Advanced and Digital Manufacturing, she showcased her expertise in CNC Turning, earning a Gold Medal at WorldSkills Singapore 2023. Now pursuing a degree in Computer Science at NTU, Jia Xin applies her problem-solving mindset across disciplines, merging engineering precision with software development.

Selected for her resilience, analytical acumen, and commitment to excellence, she exemplifies Singapore's drive to cultivate multi-disciplinary innovators ready to shape the future of technology and manufacturing.

Competition Segment:
**Manufacturing and
Engineering Technology**

Specialisation:
CNC Turning

Award(s):

 **WorldSkills Singapore
2023 - Gold**

 **WorldSkills Lyon, France
2024 - Certificate of
Participation**

Technical Competencies:

- **Precision Engineering**
- **CAD/CAM Software**
- **Mastercam**
- **Python**

Key Accomplishments

Balancing her first semester of Computer Science at NTU with the final stages of WorldSkills training proved more challenging for Jia Xin than the competition itself. She found that conquering the day-to-day clash between academic responsibilities and the 8am-to-6pm CNC drills tested her determination far more than the event's high-intensity tasks.

Despite feeling out of step—her degree diverged from both her polytechnic studies and the WorldSkills field—she harnessed her resilience to adapt and succeed at **WorldSkills Singapore 2023 where she achieved a Gold**. Mentors and peers praise her unwavering commitment, applauding how she navigates obstacles by learning on the go and refusing to let mismatched subject areas limit her ambition.



Education & Experiences

Educational Background:

Jia Xin earned her **Diploma in Advanced and Digital Manufacturing**, gaining exposure to precision engineering and manufacturing processes—a skill set she would later showcase on the WorldSkills stage. Transitioning to Computer Science at Nanyang Technological University (NTU) introduced her to **programming, algorithm design, and computational thinking** through courses like Data Structures and Algorithms. This shift sharpened her analytical mindset, complementing the hands-on expertise she developed during her CNC training.

Work & Internship Experience:

Rather than a standard internship, Jia Xin devoted extensive periods to WorldSkills Singapore—CNC Turning preparation. This intensive training replaced her typical work attachment, immersing her in **detailed machining techniques** and strict deadlines aligned with international standards. The experience underscored her knack for rapid problem-solving, accuracy, and poise—traits she now transfers to group projects and coding challenges in her Computer Science degree.

Projects & Achievements:

One of Jia Xin's most notable accomplishments was achieving a **Gold at WorldSkills Singapore 2023—CNC Turning**, a role that demanded exacting problem-solving, meticulous attention to error-checking, and thorough time management.

Although it did not directly mirror her diploma or her new major, the competition offered a unique perspective on adapting to unfamiliar challenges. This experience affirmed her capacity to learn quickly, remain flexible, and deliver results under multifaceted demands—qualities that continue to benefit her in her coursework at NTU and beyond.



Endorsements



Jia Xin graduated top of her diploma cohort in 2024 and demonstrated exceptional technical precision, resilience, and problem-solving abilities throughout her course of studies. Now pursuing a degree in Computer Science at NTU, Jia Xin continues to push boundaries, applying her strong technical foundation to new challenges in programming and advanced manufacturing technologies. Her dedication, adaptability, and pursuit of excellence make her a formidable force in both engineering and computing.

– **Eunice Chia**

WorldSkills Expert and Lecturer at Nanyang Polytechnic's School of Engineering



Jia Xin's Aspirations & Goals

Professional Pursuits:

In the next few years, Jia Xin aims to harness her **engineering precision and analytical strengths**—cultivated through advanced manufacturing and CNC turning—to carve out a niche in computer science. She hopes to contribute to projects that unite **logic-driven innovation** with creativity, focusing on areas such as interactive AI or socially impactful software. Recognising that her unconventional path can be a strength, she plans to leverage both her engineering and coding perspectives to devise solutions that are robust yet user-friendly.

Future and Industry Impact:

By interweaving empathy into technology, Jia Xin hopes to influence sectors like mental health and accessibility, where personalised AI tools and thoughtful interfaces can better serve diverse communities. Though still discovering her exact focus within computer science, her background in manufacturing and design thinking will guide her in building user-centric systems. Long term, she envisions an industry more attuned to humanitarian needs, shaped by technology that enhances connections, respects privacy, and embraces inclusivity at every turn.



In Jia Xin's Voice

Jia Xin embraces this philosophy as she navigates unexpected academic and competitive experiences, concentrating on what she can control—her current tasks, her approach to problem-solving, and her growth. She also believes that

"The only thing we control is how we respond to the moment."

a reminder that every challenge, whether calibrating a CNC machine or troubleshooting a coding function, is an invitation to learn. By valuing adaptability over rigid planning, she continually shapes her unconventional path, standing ready to uncover new opportunities in technology, design, or wherever her curiosity leads next.

Some things are forces of nature, so instead of worrying about the future, focus on doing your best in the present.

– Jia Xin



Neo Wei Le

Wei Le has demonstrated exceptional technical expertise and resilience in Electronics, a skill vital to Singapore's high-tech industries. As a Gold Medallist at WorldSkills Singapore 2023 and a Medallion for Excellence recipient at WorldSkills Lyon 2024, where he achieved an impressive 5th place, Wei Le embodies innovation and precision. His ability to design and programme complex systems, coupled with his dedication to continuous learning, sets him apart as a leader in the field.


Selected for his technical mastery and problem-solving skills, Wei Le exemplifies Singapore's capability to nurture talent poised to shape the future of AIoT and advanced electronics.


Competition Segment:
**Manufacturing &
Engineering Technology**

Specialisation:
Electronics

Award(s):

 **WorldSkills Singapore**
2023 - Gold

 **WorldSkills ASEAN**
2023 - Bronze

 **WorldSkills Lyon, France**
2024 - Medallion For
Excellence

Technical Competencies:

- **Programming Languages:**
C, Python, C++, Java
- **Electronics Design (PCBs)**
- **Cloud Computing**
- **AIoT Development**

Key Accomplishments

Achieving a **Medallion for Excellence** at the international level affirms his broad technical mastery. In one challenge, he **coded firmware** for custom hardware under tight time constraints, delivering near-perfect results. This achievement reflects his **adaptability, resourcefulness, and commitment to excellence**—qualities aligned with Singapore's forward-looking electronics and engineering sectors.



Education & Experiences

Educational Background:

At Singapore Polytechnic, Wei Le's project-based learning environment fostered self-directed exploration. Engaging deeply with **complex modules**, he learned to implement features in **mobile apps, websites, and embedded systems**—skills that sharpened his **analytical thinking** and versatility.

Work & Internship Experience:

During his internship at **A*STAR's Institute of High Performance Computing**, he applied **data processing and machine learning techniques** to real-world healthcare datasets from **Singapore General Hospital (SGH)**, honing his collaborative and communication abilities. Later, at Singapore Polytechnic, he designed projects to assess junior students, pushing him to innovate and refine educational experiences.

Projects & Achievements:

Through competitions like the **LTA BusTech Grand Challenge**, Wei Le showcased adaptability—learning new tools rapidly and applying them to secure a **second-place finish**, proving his readiness for complex, evolving industry demands.



Endorsements



Wei Le understood the responsibility of representing the nation as I find him motivated and was able to cope with the loneliness of training alone.

I strongly believe his attitude and aptitude will enable Wei le to do well in his future endeavours.

– **Mr Peh King Sing**

WorldSkills Coach and Senior Specialist at Singapore Polytechnic's School of EEE





Wei Le's Aspirations & Goals

Professional Pursuits:

Wei Le envisions a future in **research and development**, contributing to next-generation **AIoT solutions**. He aims to harness emerging technologies, pushing boundaries in **AIoT integration** to create smarter, more efficient devices.

Future and Industry Impact:

By focusing on advancements in GPU technologies, machine learning applications, and data-driven solutions, he hopes to influence the global tech landscape. Wei Le's mission is to enhance performance, inspire innovation, and support sustainable growth in electronics—a vision that aligns with Singapore's mission to remain a leader in cutting-edge engineering fields.



In Wei Le's Voice

Wei Le often reflects on the balance between circumstance and response.

Guided by this perspective, he believes in shaping the future through invention and innovation.

As Alan Kay's words resonate with him

"The best way to predict the future is to invent it."

he remains committed to embracing new challenges. By merging adaptability, resourcefulness, and creative problem-solving, Wei Le aims to help drive technological progress that enriches both industries and everyday life.

Half of life is
what you get,
the other half is
how you take it.

– Wei Le



Tay Yong Kang

Yong Kang has demonstrated exceptional proficiency in Additive Manufacturing, a key enabler of innovation in the aerospace industry. His mastery of 3D scanning, CAD design, and advanced printing processes, coupled with his attention to detail and problem-solving abilities, earned him a Gold at WorldSkills Singapore 2023. Yong Kang's ability to adapt under pressure, combined with his passion for lightweight, sustainable solutions, positions him as a forward-thinking engineer.

Selected for his technical expertise and dedication to excellence, Yong Kang exemplifies Singapore's drive to lead in cutting-edge manufacturing technologies that shape the future of aviation.

Competition Segment:
Manufacturing and Engineering Technology

Specialisation:
Additive Manufacturing

Award(s):

 **WorldSkills Singapore**
2023 - Gold

 **WorldSkills Lyon, France**
2024 - Certificate of Participation

Technical Competencies:

- **Siemens NX**
- **3D Printing Processes**
– FDM, SLA, DLP, SLM
- **Finite Element Analysis (FEA)**

Key Accomplishments

The unpredictable nature of additive manufacturing challenged Yong Kang's capacity to transform conceptual requirements into tangible, well-executed 3D prints. He excelled by maintaining stringent standards, thinking critically about design choices, and pushing forward despite software glitches or mechanical complications. Even unforeseen software failures did not deter him; he leveraged composure and logical troubleshooting to meet deadlines.

Mentors and experts recognised this composure, leading him to secure **Gold at WorldSkills Singapore 2023**—a testament to his ingenuity and calm performance under pressure.



Education & Experiences

Educational Background:

During his time at Nanyang Polytechnic, Yong Kang built on his foundational understanding of **aerodynamics, materials science, and aircraft systems**. Recognising the importance of modern manufacturing methods, he specialises in additive manufacturing, CAD and material science, learning to apply 3D printing to produce custom components for robust, efficient aircraft structures.

Training for WorldSkills further pushed him to refine these concepts, merging theory with practical production to create highly optimised designs.

Work & Internship Experience:

Yong Kang engaged in diverse real-world exposures that showcased his adaptability. For instance, he participated in designing souvenirs for Nanyang Polytechnic's industrial partner, highlighting 3D printing's capabilities in both concept creation and design-thinking strategies.

Later, an attachment at **ELH Tech (Singapore)** immersed him in **DLP printing**, from job preparation to post-processing, reinforcing the standard production workflows in additive manufacturing. He also learned quality control with a **Coordinate Measuring Machine (CMM)**—essential in the aerospace sector—to verify the precision of 3D-printed metal components.

Projects & Achievements:

A defining milestone was his achievement of a **Gold at WorldSkills Singapore in Additive Manufacturing**, validating his technical acumen and fortitude under tight deadlines. This experience—from selecting appropriate materials to ensuring accurate, on-time production—honed Yong Kang's problem-solving capabilities, time management, and resilience, traits pivotal for high-stakes engineering projects.

Through each undertaking, he further proved his ability to merge academic insights with practical, on-the-ground execution, continually refining his approach to manufacturing.



Endorsements



Yong Kang excels in 3D scanning, metrology, scan-to-CAD redesigning, CAE, build process analysis, and post-processing. He consistently demonstrates strong problem-solving, attention to detail, teamwork, adaptability, eagerness to learn, and effective communication. These technical and personal strengths highlight his dedication to excellence and his ability to contribute effectively to any project.

– **Mr Siva Kodali**

WorldSkills Expert and Senior Lecturer at Nanyang Polytechnic



Yong Kang's Aspirations & Goals

Professional Pursuits:

Embarking on the next phase of his journey, Yong Kang envisions joining a major aerospace organisation like Airbus or Boeing, channelling his additive manufacturing insights to propel next-generation aircraft. By refining processes that reduce component weight, cut costs, and bolster sustainability, he hopes to shape an aviation landscape where safety and efficiency co-exist. Motivated by cutting-edge materials and design methodologies, Yong Kang seeks to push aerospace boundaries, delivering safer, more streamlined, and eco-friendly solutions for airlines worldwide.

Future and Industry Impact:

Ultimately, Yong Kang believes that adopting additive manufacturing and related smart production methods can transform the aerospace sector, reducing reliance on manual labour and decreasing environmental impact.

By championing collaboration and problem-solving, he aims to cultivate an ecosystem that keeps pace with rapid technological changes while consistently improving reliability, cost-effectiveness, and sustainability across the industry.



In Yong Kang's Voice

This principle guides Yong Kang's approach to each project—he views discomfort as a catalyst for creativity. He also draws strength from Albert Einstein's words:

"The important thing is to never stop questioning."

Ever curious, he continuously seeks new ways to enhance designs and processes, believing that unwavering perseverance and an open-minded stance on mistakes are essential to breaking ground in aerospace engineering. With these convictions, he moves forward, ready to contribute meaningful progress to the field of aviation.

Innovation begins where comfort ends. The pursuit of growth, whether personal or professional, requires embracing challenges and constantly pushing boundaries.

– Yong Kang



Teo Jun Yang Jonathan

Competition Segment:
**Manufacturing and
Engineering Technology**

Specialisation:
Water Technology

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Silver

Technical Competencies:

- **Chemical Analysis and Testing**
- **Water Quality Monitoring**
- **Water Treatment Fundamentals**

Jonathan has demonstrated exceptional proficiency in Water Technology, a multidisciplinary field critical to addressing global water challenges. His strong foundation in Chemical Engineering, honed through rigorous academic training and hands-on experience at PUB, highlights his ability to deliver precise and reliable water quality solutions. Jonathan's resilience and dedication earned him a Silver Medal at WorldSkills Lyon 2024, showcasing his technical expertise and commitment to excellence.

Selected for his passion, precision, and innovative mindset, Jonathan embodies the values of WorldSkills, contributing to Singapore's leadership in sustainable water management and advancing critical solutions for a resource-scarce world.

Key Accomplishments

His coaches commend his strong work ethic, commitment to excellence, and self-directed motivation—core strengths that help him excel under pressure and tackle the complexities of modern water treatment.

Facing international-level tasks and stringent timelines tested Jonathan's resilience. Remembering the sacrifices and rigorous preparation that led him there, he persevered. By adjusting strategies and learning from early missteps, he regained focus and managed to achieve a **Gold at WorldSkills Singapore 2023 and a Silver at WorldSkills Lyon 2024.**



Education & Experiences

Educational Background:

Throughout his diploma program, a few modules profoundly resonated with Jonathan, most notably ***Environmental Technology***. Learning about water treatment fundamentals—chemical and physical monitoring, plus the precision tests used to determine water quality—significantly bolstered both his theoretical base and lab-based exactitude.

Simultaneously, his training for competitions sharpened his attention to detail, heightened efficiency, and fine-tuned his glassware handling skills, all critical for producing dependable, high-quality lab results.

Work & Internship Experience:

Jonathan's ***two-month attachment at PUB*** granted him rotations among Lower Seletar Waterworks, Changi Water Reclamation Plant, and Kranji NEWater Factory. Though he mainly observed and shadowed technicians, this broad perspective exposed him to potable water, wastewater, and NEWater systems. This reinforced his appreciation for Singapore's innovative water management efforts and illuminated the complexities of resource-scarce infrastructure.

Projects & Achievements:

His passion for water treatment led him to compete internationally, culminating in a Silver in Water Technology at the WorldSkills Lyon. He also received a ***Bronze Medal in the Diploma in Chemical Engineering***, along with the ***Temasek Polytechnic Skills Mastery Award and a Ngee Ann Kongsi Scholarship***—testaments to his strong work ethic and unwavering commitment to continuous growth. In each endeavour, he built upon the foundations set by his environmental technology modules, applying newfound knowledge to both competitions and prospective industry roles.



Endorsements



Jonathan was one of the outstanding students in academic performance despite of achievement in CCA as a president in the Course Interest Group. He demonstrated outstanding proficiency in Water Technology, a multidisciplinary field that involves Mechanical Engineering, Chemical Engineering, Electrical Engineering, Environmental Science, Automation and Control System as well as Health and Safety. He has the potential to contribute to addressing one of the world's most critical challenges—providing clean and safe water for all.

– ***Ms Helen Han***

Coach and Senior Lecturer at Temasek Polytechnic's School of Applied Science



Jonathan's Aspirations & Goals

Professional Pursuits:

Jonathan sees himself channelling his engineering expertise to **enhance societal well-being**—improving efficiency, safety, and comfort in daily life. Post-polytechnic, he hopes to deepen his chemical processes knowledge at Nanyang Technological University (NTU), gaining further insight into sustainability and next-generation water solutions.

Driven by the synergy between academic learning and practical exposure, he aspires to eventually lead a team of engineers, sharing knowledge through effective collaboration while striving for impactful breakthroughs in water technology.

Future and Industry Impact:

As environmental constraints and water scarcity intensify, Jonathan views water technology as pivotal to global progress. By refining treatment methods and reducing waste or hazards, engineers can tangibly uplift communities. He envisions nurturing like-minded professionals, **fostering innovation in water solutions**, and propelling a safer, more eco-conscious landscape for chemical engineering. Through strategic problem-solving and ethical leadership, he hopes to shape a field where knowledge and collaboration fuel meaningful, sustainable changes.



In Jonathan's Voice

Jonathan grounds himself in this belief, trusting that genuine effort, humility, and faith will guide him through challenging pathways. Another quote he holds dear is:

"Stay hungry, stay foolish."
— **Steve Jobs**

For him, it symbolises the importance of staying humble, avoiding complacency, and embracing each endeavour with an open heart. By learning from mistakes instead of fearing them, he transforms setbacks into stepping stones for deeper knowledge—knowing that perseverance, curiosity, and courage often pave the way to the most meaningful achievements.

Do our best
and let God do
the rest.

– **Jonathan**



Wong Xin Jie

Xin Jie's exceptional talent in Mechanical Engineering CAD has distinguished him as a rising star in Singapore's digital manufacturing sector. His strong technical expertise, precision in design, and ability to adapt under pressure earned him an impressive 6th place at WorldSkills Lyon 2024, competing against 29 of the world's best. Xin Jie's problem-solving acumen and resilience were evident during high-stakes challenges, where he remained composed and methodical, ensuring optimal design outcomes. His achievements, including a Medallion for Excellence at the global stage, a Silver at WorldSkills Singapore 2023 and a Bronze at WorldSkills ASEAN 2023 underscore his dedication to advancing mechanical engineering through innovation and digitalisation.

Selected for his technical mastery and commitment to excellence, position Xin Jie as a key contributor to the future of smart manufacturing and sustainable engineering solutions.

Competition Segment:
Manufacturing and Engineering Technology

Specialisation:
Mechanical Engineering CAD

Award(s):



WorldSkills Singapore
2023 – Silver



WorldSkills ASEAN
2023 – Bronze



WorldSkills Lyon, France
2024 - Medallion for Excellence

Technical Competencies:

- AutoCAD
- Autodesk Inventor
- Autodesk Fusion
- CAE Skills (Ansys)
- 3D Scanning

Key Accomplishments

Xin Jie's participation in Mechanical Engineering CAD at WorldSkills tested his flexibility, especially when navigating unfamiliar simulation features within Autodesk Fusion. Drawing on his knowledge from Ansys, he rapidly adapted to finish complex tasks within short time frames. Even a surprise computer reset—resulting in unsaved work—failed to derail him; instead, he composed himself, restructured his priorities, and optimised points across remaining tasks.

This calm efficiency under pressure was ultimately recognised with a **Medallion for Excellence at WorldSkills Lyon 2024, Silver at WorldSkills Singapore 2023 and Bronze at WorldSkills ASEAN 2023**—testaments to his professionalism and refined problem-solving skills.



Education & Experiences

Educational Background:

During his time at Singapore Polytechnic, Xin Jie cultivated a solid ability to design products tailored for both manufacturing and assembly. By ensuring proper thickness, considering tool accessibility, and assessing feasibility, he learned how to **build user-friendly, reliable systems**.

He also delved into reverse engineering through 3D scanning, discovering how this technique saves time by enabling engineers to replicate or enhance existing designs efficiently.

Work & Internship Experience:

Rather than taking a conventional industry placement, Xin Jie served as a **Temp Technical Executive at Singapore Polytechnic**. In this role, he tackled individual projects, notably **designing and 3D-printing planetary gear models** for student demonstrations—an undertaking that refined his project management abilities and iteration strategies.

He also took on responsibilities in student guidance, teaching newcomers how to handle 3D scanning equipment. Through patient instruction and precise technical communication, he not only broadened his own skill set but also built confidence in relaying complex procedures.

Projects & Achievements:

Among his standout endeavours was designing a **catapult seat mechanism** that prevented projectiles from rolling off prematurely. Although initially appearing straightforward, the task demanded multiple adjustments before achieving a stable solution.

This experience reinforced Xin Jie's belief in thorough planning, systematic troubleshooting, and perseverance. By working through each revision, he demonstrated his unwavering commitment to consistent, well-executed design.



Endorsements



Mr. Wong Xin Jie has demonstrated exceptional proficiency in Mechanical Engineering CAD, a skill critical to Singapore's digital manufacturing industries. Competing in the WorldSkills Lyon 2024, he achieved an impressive 6th place out of 29 international competitors. Mr. Wong's remarkable performance underscores his dedication and discipline to excel in everything he undertakes. One memorable instance that truly highlights his dedication occurred during a particularly challenging project at the competition. Faced with a complex design issue, Mr. Wong worked tirelessly to find a solution. Despite numerous setbacks, he remained focused and calm, ultimately resolving the problem. This experience showcased his problem-solving skills and his ability to thrive under pressure.

– **Mr Alvin Tay**

Coach and Senior Lecturer at Singapore Polytechnic's School of Mechanical and Aeronautical Engineering



Xin Jie's Aspirations & Goals

Professional Pursuits:

Looking forward, Xin Jie envisions **leading engineering teams, guiding newcomers, and fostering a collaborative culture**. His aim is to stay abreast of evolving industry trends—particularly in automation and digitalisation—so he can continue innovating project solutions. Believing that a supportive environment prevents burnout, he places a premium on strong relationships within teams and constructive knowledge-sharing.

By emphasising both technique and team cohesion, he hopes to deliver high-calibre results that shape mechanical engineering's future.

Future and Industry Impact:

Xin Jie imagines harnessing AI to refine design processes and transform maintenance workflows. He foresees AI optimising simulations and enabling predictive maintenance, ultimately enhancing speed and precision in engineering solutions.

In applying critical thinking to everyday life—be it improving public transport reliability or pioneering advanced manufacturing—he intends to deploy his technical background and leadership mindset to drive forward a more efficient, socially beneficial engineering landscape.



In Xin Jie's Voice

Xin Jie frames his path around this quote, believing that growth hinges on decisive action rather than passive waiting. He also resonates with Sir Henry Royce's advice:

"Strive for perfection in everything you do. Take the best that exists and make it better. When it does not exist, design it."

Seeing engineering as an ever-expanding realm of possibilities, he values improving the status quo, aiming to craft designs that not only address immediate problems but also open doors for bigger, more imaginative breakthroughs.

Destiny is
no matter of chance,
it is a matter of choice.
It is not a thing to be
waited for, it is a thing
to be achieved.

– **William Jennings
Bryan**



Wong Yi Tung Shanice

Shanice has demonstrated outstanding proficiency in CNC Milling, a skill vital to Singapore's precision engineering and manufacturing sectors. Transitioning from aeronautical engineering to CNC Milling, she tackled steep learning curves with determination, earning a Gold Medal at WorldSkills Singapore 2023. Her technical expertise, meticulous planning, and ability to thrive under pressure set her apart as a trailblazer in a traditionally male-dominated field.

Shanice's selection for the 47th WorldSkills Competition reflects her resilience, adaptability, and potential to drive innovation, contributing to advancements in high-tech manufacturing while inspiring the next generation of engineers.

Competition Segment:
**Manufacturing and
Engineering Technology**

Specialisation:
CNC Milling

Award(s):



**WorldSkills Singapore
2023 - Gold**



**WorldSkills Lyon, France
2024 - Certificate of
Participation**

Technical Competencies:

- **CAD Software**
- Autodesk Inventor, AutoCAD, CATIA, Solidworks, Mastercam
- **CNC Machining**
- **Precision Measurement**

Key Accomplishments

Coaches and mentors commend Shanice's adaptability, perseverance, and eagerness to learn. Transitioning from aeronautical engineering to CNC Milling involved a steep learning curve, yet she approached each phase with determination. Her **Gold Medal success at WorldSkills Singapore 2023** underscores both her technical prowess and resilience under intense competition demands.

Shanice earned praise for her structured machining processes—planning tasks meticulously, controlling resource usage, and maintaining composure in challenging scenarios. This blend of precision, analytical thinking, and adaptability positions Shanice as a rising talent in high-tech engineering and manufacturing.



Education & Experiences

Educational Background:

Shanice's aeronautical studies built a solid foundation in **mechanics, materials, and thermofluids**, complemented by hands-on modules in aircraft systems. Exposure to CAD software—Autodesk Inventor, CATIA, and now SolidWorks—expanded her ability to visualise complex components and refine designs for efficiency and safety.

Work & Internship Experience:

Serving as an **Assistant Technician at Singapore Polytechnic's workshop** enriched her practical understanding of industrial standards. Sharing knowledge with juniors and visitors improved her communication and reinforced her commitment to mentorship.

Projects & Achievements:

As a secretary of the SP Aviation Club and later promoted to president in her final year of school, Shanice enhanced her leadership, problem-solving, and teamwork skills. Achieving a **Gold Medal at WorldSkills Singapore 2023** validated her ability to manage tight tolerances, optimise resources, and excel under time pressure.



Endorsements



Shanice Wong has demonstrated outstanding proficiency in CNC Milling, a skill critical to Singapore's precision engineering sector. As a female competitor in a traditionally male-dominated field, she stands out not only for the technical competence, but also for the resilience and commitment to excellence. Her selection for this competition reflects her capabilities, discipline, and potential to drive advancements in manufacturing industries.

– **Mr Hendra Teoh**

WorldSkills Expert and Senior Lecturer at Singapore Polytechnic's School of Mechanical & Aeronautical Engineering



Shanice's Aspirations & Goals

Professional Pursuits:

Shanice envisions leveraging her multidisciplinary exposure—**blending aeronautical insights and mechanical engineering concepts**—to conquer innovative engineering challenges. Over the next few years, she aims to deepen her expertise in CNC techniques and advanced machining, seeking roles where she can refine processes and enhance productivity. By continuously adopting a growth mindset and maintaining disciplined project management, she hopes to become a trusted engineer capable of leading precision-driven teams.

Future and Industry Impact:

Long term, Shanice strives to influence industry designs that merge creativity with practicality, pushing boundaries in both aviation and manufacturing. Whether optimising aircraft components for improved aerodynamics or spearheading sustainability initiatives in automotive design, she plans to anchor her solutions in meticulous data analysis and well-founded processes. By combining advanced CNC workflows, aeronautical methods, and an eagerness for continuous improvement, she anticipates contributing to a more efficient, greener, and future-forward engineering landscape—one where technical mastery and environmental consciousness go hand in hand.



In Shanice's Voice

For Shanice, structured processes, data-driven methods, and consistent improvement form the basis of innovation. Each challenge—whether refining a complex CNC part or delving into aerodynamic refinements—benefits from disciplined routines and insightful planning. She also draws inspiration from a phrase shared by *The Smart Local*:

"Live, and make this living life you still have as unforgettable as the one I hope I had."

Embodying this approach, she pushes beyond comfort zones—whether perfecting CNC milling or exploring new engineering avenues—determined to craft a life story worth remembering.

You do not rise to the level of your goals; you fall to the level of your systems.

– James Clear



Christine Huang Yan Xin

Christine has demonstrated remarkable skill and professionalism in Beauty Therapy, a highly sought-after field in Singapore's beauty and wellness sector. Her mastery of diverse techniques, from facial treatments to body massage and advanced beauty technologies, reflects her technical competence and dedication to client care. Christine's success at WorldSkills ASEAN 2023, where she earned a Gold, highlights her resilience, precision, and passion for excellence.

Selected for her empathy, creativity, and commitment to driving innovation, Christine exemplifies Singapore's vision of raising industry standards and advancing the beauty therapy profession.

Competition Segment:
Social and Personal Services

Specialisation:
Beauty Therapy

Award(s):



WorldSkills ASEAN
2023 - Gold



Service Star Award
2023



WorldSkills Lyon, France
2024 - Certificate of
Participation

Technical Competencies:

- **Makeup Artistry**
- **Facial and Body Treatments**
- **Nail Care**
- **Advanced Beauty Machine Operations**

Key Accomplishments

Christine's talent and dedication have been recognised through various awards, including placement on the *Director's List in both December 2022 and June 2023, as well as the Edusave Character Award and the Edusave Award for Achievement, Good Leadership, and Service (EAGLES)*.

Her lecturers from ITE College East frequently commend her work ethic, creativity, and professionalism. She is noted for her attention to detail, adaptability, and ability to learn quickly—qualities that set her apart as a rising talent in the beauty therapy field. Christine's achievements, including her success in high-pressure competitions like the WorldSkills ASEAN 2023 where she obtained a **Gold**, showcase her ability to deliver exceptional results while maintaining a calm and composed demeanour.



Education & Experiences

Educational Background:

Christine's education has been instrumental in developing her technical expertise and professionalism. Through her coursework, she has gained proficiency in various beauty therapy techniques, including makeup, facials, nail care, and body massage. Additionally, she has received specialised training in the operation of advanced beauty machines, which enhance the effectiveness and precision of her treatments. Her commitment to continuous learning has led to **her consistent placement on the Director's List**, reflecting her academic excellence and dedication to her craft.

Work & Internship Experience:

Christine gained valuable industry experience during her internship at a beauty salon, where she assisted with facial treatments, managed client appointments, and provided excellent customer service. This role allowed her to refine her technical skills while developing essential professional competencies such as time management, communication, and client relationship-building. Her part-time job as a beautician further reinforced her understanding of the demands and expectations in the beauty industry.

Projects & Achievements:

Christine's leadership skills were evident during a community service event where she led her class in providing shoulder and neck massage demonstrations for the elderly. This project not only strengthened her technical expertise but also highlighted her ability to connect with people from diverse backgrounds.

Her dedication to excellence is further demonstrated by her numerous accolades, including a **Gold at WorldSkills ASEAN 2023** and the Service Star Award for outstanding client care and professionalism.



Endorsements



Ms Christine Huang has demonstrated outstanding proficiency in Beauty Therapy, a skill highly sought after in Singapore's beauty and wellness sector. Her determination, self-discipline and commitment propelled her to attain excellent skills and knowledge, positioning her amongst the best in the region.

– **Ms. Goh Chu Yi Jessie**

Coach and Section Head at ITE College East School of Business & Services



Christine's Aspirations & Goals

Professional Pursuits:

Christine is determined to establish herself as a professional beauty therapist, specialising in facial and skincare treatments. Over the next few years, she plans to partner with experienced professionals to open a salon that delivers bespoke beauty services. Through this venture, she aims to foster a loyal client base and create a space where clients feel valued and cared for.

Future and Industry Impact:

Christine is committed to driving positive change in the beauty industry by promoting inclusivity and sustainability. She envisions developing innovative solutions that cater to diverse skin types and advocating for eco-friendly beauty practices. By integrating her technical expertise with her passion for client care, Christine aspires to set new standards in beauty therapy, making it more accessible and environmentally responsible.



In Christine's Voice

Christine is inspired by Winston Churchill's words:

"Success is not final, failure is not fatal: It is the courage to continue that counts."

These guiding principles remind her of the importance of persistence and resilience in overcoming challenges and achieving her goals. With her unwavering dedication, she is poised to make a meaningful impact in the beauty therapy industry.

I don't know if hard work will lead to success, but I do know that without effort, success is impossible. Opportunities are only reserved for those who have prepared.

– Christine



Lam Kit Ing Glenda

Glenda has demonstrated exceptional professionalism and compassion in nursing, excelling in both clinical and community care. Her ability to provide holistic support to patients, managing complex physical and psychosocial needs, earned her a Medallion for Excellence at WorldSkills Lyon 2024 and a Gold at WorldSkills Singapore 2023. Glenda's resilience, empathy, and strong communication skills set her apart in a demanding field.

Selected for her technical proficiency and patient-centered approach, she embodies the values of excellence and care, contributing to Singapore's commitment to delivering high-quality, empathetic healthcare services.

Competition Segment:
Social & Personal Services

Specialisation:
Health & Social Care

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Medallion for
Excellence

Technical Competencies:

- Wound Care
- Medication Administration
- Patient Safety
- Clinical Skills

Key Accomplishments

Glenda was commended by her mentors as demonstrating a **calm, rational approach** to complex patient scenarios, and her capacity to **foster teamwork** and maintain professionalism under pressure reveals the makings of a nurse who can **thrive in demanding clinical settings**.

Earning a **Medallion for Excellence at WorldSkills Lyon 2024 and Gold at WorldSkills Singapore 2023** validated Glenda's ability to apply clinical knowledge in time-sensitive, high-pressure situations. For example, when presented with a simulated burn emergency, she quickly assessed the severity, implemented sterile dressings, and communicated effectively with team members. This achievement highlights her **adaptability and resilience**—qualities that align with Singapore's emphasis on delivering efficient, empathetic, and patient-centric healthcare services.



Education & Experiences

Educational Background:

Glenda's nursing education at Nanyang Polytechnic equipped her with strong theoretical knowledge in ***anatomy, physiology, and pharmacology***, as well as insights into ***mental health, ethics, and holistic patient care***. These foundational principles shape her approach to assessing and supporting patients.

Work & Internship Experience:

During her internship, Glenda ***managed multiple patient cases***, executing doctors' orders, administering medications, and collaborating closely with colleagues. This experience honed her time management and reinforced the value of teamwork in delivering quality care.

Projects & Achievements:

By participating in mental health awareness initiatives, Glenda refined her communication and interpersonal skills. These experiences affirmed her commitment to ***patient education***, early intervention, and creating supportive healthcare environments.



Endorsements



Glenda consistently demonstrates exceptional professionalism in providing holistic care across various settings, including hospitals, community day care centers, clients' homes, and nursing homes. She works with clients facing complex health challenges, managing both their physical and psychosocial well-being while supporting their development and rehabilitation to improve quality of life. Collaborating closely with families and healthcare teams, Glenda tailors personalized care plans and ensures timely follow-ups. Her empathy, strong communication, determination, and resilience earned her the Medallion of Excellence in the WorldSkills Competition 2024.

– ***Ms Cynthia Ngian***

Deputy Manager at Nanyang Polytechnic's School of Health & Social Sciences





Glenda's Aspirations & Goals

Professional Pursuits:

Glenda envisions deepening her expertise in **specialised nursing areas** and pursuing opportunities to contribute to evidence-based research. By expanding her clinical skill set and understanding of **advanced care practices**, she aims to enhance patient experiences and outcomes.

Future and Industry Impact:

She hopes to address systemic healthcare challenges by promoting patient education, preventive care, and the integration of innovative approaches. By **embracing new methodologies** and staying current with industry trends, Glenda intends to help shape a more **efficient, empathetic, and adaptable** healthcare landscape, ultimately contributing to Singapore's reputation for high-quality, forward-thinking medical services.



In Glenda's Voice

Glenda believes that growth arises from overcoming challenges and building meaningful connections. As she often reflects:

Inspired by Florence Nightingale's words—

"I never gave or took any excuse."

—she remains committed to showing up fully for her patients, colleagues, and community. These guiding principles encourage her to remain resilient, strive for excellence, and continually advance the standards of care that define her nursing journey.

Growth comes not from what we achieve but from the challenges we overcome and the bonds we forge along the way.

– **Glenda**



Nur Selina Bte Sapii

Selina exemplifies the precision, grace, and adaptability essential in world-class hospitality. With expertise in fine dining service, beverage preparation, and guest engagement, she delivers seamless, memorable experiences with professionalism and meticulous attention to detail. At WorldSkills Lyon 2024, she competed against top global talents, earning a Silver Medal in Restaurant Service.

Competition Segment:
Social and Personal Services

Specialisation:
Restaurant Service

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 – Silver



Global Skills Challenge
2024 - Gold & Best of Nation

Technical Competencies:

- Restaurant Service
- Bartending
- Barista
- Menu Creation
- Food Safety
- Wine and Spirits
- Personalised Customer Service

Selected for her ability to anticipate guests' needs and uphold service excellence, her achievement reflects her deep passion for the craft and reinforces Singapore's commitment to grooming outstanding hospitality professionals, setting new benchmarks for service excellence.

Key Accomplishments

Between 2023 and 2024, Selina embarked on four major competitions—balancing intense WorldSkills training with school obligations and part-time work. Despite her demanding schedule, she secured a **Gold at WorldSkills Singapore 2023, Silver at WorldSkills Lyon 2024 and Gold & Best of Nation at the Global Skills Challenge 2024.**

Selina's relentless pursuit of excellence continues to inspire those around her. Alongside consistent academic performance and accolades like the Edusave Merit Bursary and **Mendaki Special Achievement Award for Excellence in Culinary**, she maintains a positive, humble disposition, solidifying her reputation as a genuine leader in her field.



Education & Experiences

Educational Background:

Selina's journey commenced with a **Nitec in Pastry & Baking**, providing foundational insights into culinary arts. Transitioning to Republic Polytechnic deepened her exposure to restaurant service, hospitality management, and entrepreneurship, each module challenging her to adapt and refine her strategies for customer engagement.

Practical coursework and real-world experiences compelled her to balance improvisation with structured techniques—key aspects that now anchor her professional approach.

Work & Internship Experience:

For six months as part of her diploma programme, Selina interned at **VUE Rooftop Grill & Bar (OUE Restaurants)**, rotating through roles like Runner, Expeditor, Dining Service, Bar, and Front Desk. This multifaceted exposure showed her every stage of day-to-day operations, from greeting guests to mixing signature drinks and coordinating logistical elements.

In her free time, she balanced part-time jobs in both front-of-house and back-of-house roles, enhancing her appreciation for how vital teamwork and consistent communication are for delivering cohesive dining experiences.

These experiences sharpened her adaptability and confirmed her commitment to building a supportive, dynamic hospitality culture.

Projects & Achievements:

Selina's dedication and performance have earned her recognition through spots on the Republic Polytechnic **Director's Roll of Honour (2022 & 2023)**. She also participated in competitions like **F&B Titans 2023 and iBarista 2024**, each event refining her adaptability and fuelling her passion for sharing knowledge.

Additionally, she volunteered at Republic Polytechnic, assisting with both the basic barista and coffee workshops and Kombucha workshops, actively spreading her enthusiasm and reinforcing the idea that continuous learning shapes successful F&B professionals.



Endorsements



What sets Selina apart is not just her impressive list of accomplishments but also her passion, discipline and resilience.

– **Fu Chuan Chong**

Director at Republic Polytechnic's School of Hospitality



Selina's Aspirations & Goals

Professional Pursuits:

Looking ahead, Selina intends to fortify her expertise in Food & Beverage, aiming for a fulfilling full-time role that encourages skill refinement and professional advancement. She plans to delve deeper into hospitality studies at the university level, ultimately nurturing ambitions of opening her own café or restaurant in Singapore.

Future and Industry Impact:

Beyond personal milestones, Selina envisions guiding rising talents—supporting them in navigating the hospitality sector. By promoting knowledge-sharing and interactive experiences, she hopes to raise industry standards, prioritising authentic guest connections and memorable dining experiences.

Through steadfast leadership and creative innovation, she aspires to shape a future where F&B professionals appreciate both customer satisfaction and workplace harmony.



In Selina's Voice

For Selina, consistent effort, discipline, and learning from failures pave the road to achievement. She also embraces the mantra

"If not now, when? If not me, who?"

—an outlook that drives her to seize every opportunity rather than wait for the perfect moment.

Fuelled by this proactive stance, she continually refines her service techniques and aspires toward excellence in every meal served, every guest welcomed, and every challenge overcome.

With hard work
comes success.

– **Selina**



Yu Si En Rachel

Rachel embodies the essence of hospitality—grace under pressure, service with sincerity, and an unwavering commitment to excellence. As a Year 3 student in Hotel and Hospitality Management at Republic Polytechnic, she combines technical expertise with a guest-centric approach. At WorldSkills Lyon 2024, she excelled not only in competition but also as Team Captain, balancing leadership with performance. Her Gold Medal at WorldSkills Singapore 2023 and Medallion for Excellence internationally highlight her adaptability and professionalism.

Selected for her passion for creating seamless guest experiences, Rachel is poised to make a meaningful impact in Singapore's hospitality industry.

Competition Segment:
Social and Personal Services

Specialisation:
Hotel Reception

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Medallion for
Excellence

Technical Competencies:

- **OPERA Property Management System**
- **Microsoft Office**
- **Revenue Management Principles**
- **Personalised Customer Experience**
- **Communication and Conflict Resolution (handling complaints, and requests)**
- **Public Speaking**

Key Accomplishments

She consistently shows poise, adaptability, and effective teamwork, qualities that define exceptional hotel professionals. As **Team Captain** in Lyon, Rachel balanced personal performance with peer support, leading team cheers and managing event logistics under unfamiliar circumstances. Despite challenges like cold weather and long working hours, she maintained high standards in her trade. Earning a **Gold medal WorldSkills Singapore 2023 and a Medallion for Excellence at WorldSkills Lyon 2024** highlights her readiness to meet industry expectations in Singapore's vibrant hospitality sector.



Education & Experiences

Educational Background:

Rachel's studies at Republic Polytechnic's School of Hospitality have provided a firm grounding in industry standards, **operational best practices, and strategic management principles**. These learning experiences prepare her to **navigate complex guest interactions with confidence and empathy**.

Work & Internship Experience:

During her internship at **Parkroyal Collection Singapore, Marina Bay**, Rachel shadowed a Duty Manager, gaining insights into leadership roles and front-line responsibilities. Experiences as a **Guest Service Agent** at the **Club Lounge** honed her communication skills, enabling her to remember guests' preferences and deliver personalised service.

Projects & Achievements:

As a Sands Hospitality Scholar and a **top scorer in Guest Information Systems and a recipient of the Director's Roll of Honour for 4 semesters**, Rachel has repeatedly demonstrated her strong industry aptitude. Her Gold medal at WorldSkills Singapore 2023 and Medallion for Excellence at WorldSkills Lyon 2024 reflect her **technical competence, adaptability, and international perspective on hospitality standards**.

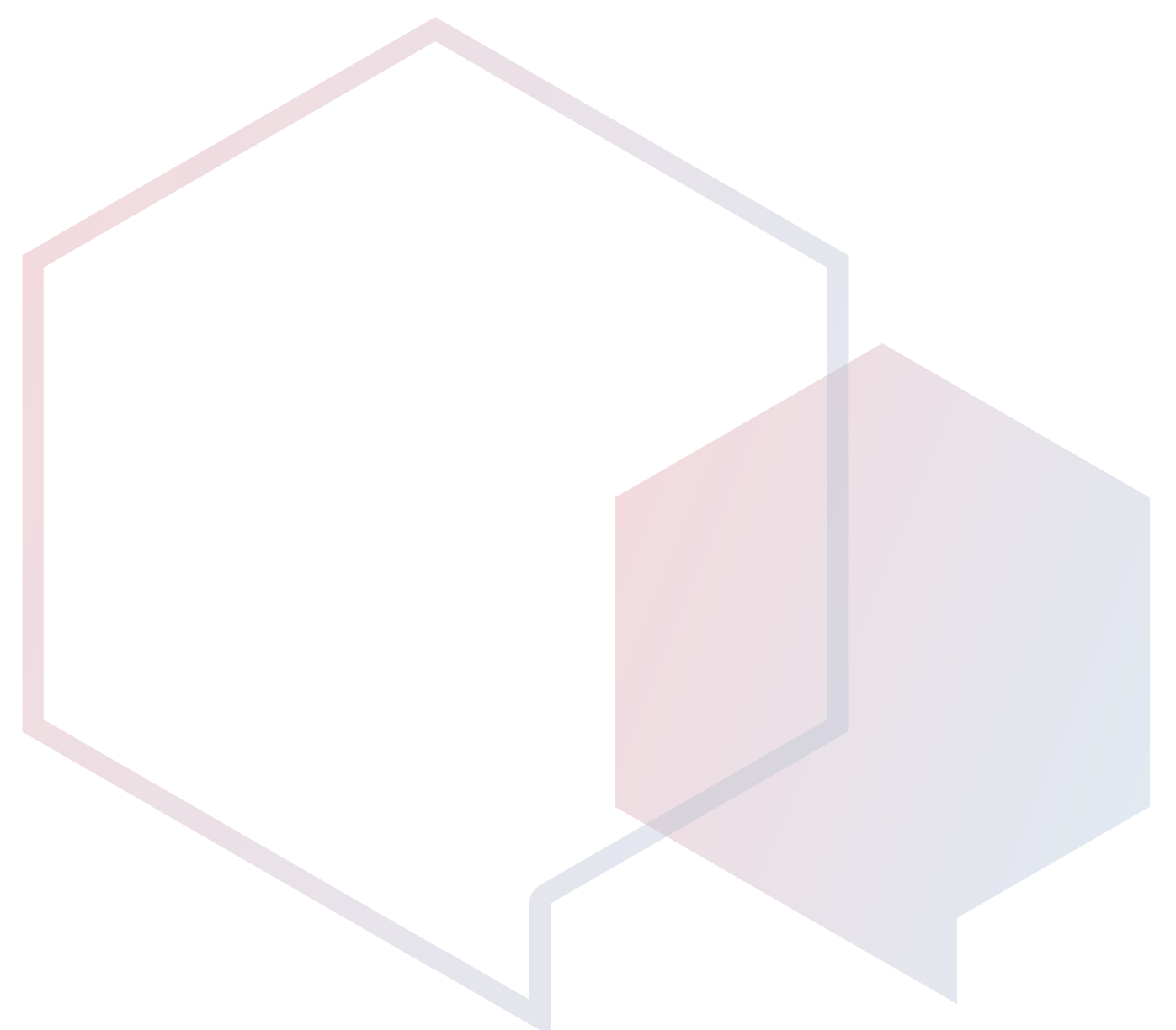


Endorsements



Rachel's calm professionalism, evident during rigorous competition conditions, speaks to her strong character and technical proficiency.

– **Mr Al Thair Muchtar and Ms Suhaila Binte Ismail**
Lecturers, Republic Polytechnic's School of Hospitality





Rachel's Aspirations & Goals

Professional Pursuits:

Rachel aspires to further her education, potentially abroad, to broaden her horizons and deepen her understanding of global hospitality trends. Ultimately, she envisions playing a key role in hotel management, blending operational expertise with a guest-centric focus.

Future and Industry Impact:

She recognises the industry's challenges, such as retaining talent and achieving work-life balance, and hopes to inspire others by demonstrating the value of outstanding service. Rachel aims to advocate for better recognition of local talents and more equitable compensation, contributing to a sustainable, people-focused future for Singapore's hospitality landscape.



In Rachel's Voice

Rachel believes that genuine hospitality emerges from offering the best version of oneself, regardless of personal setbacks. As she often reflects:

This perspective drives her to remain sincere, empathetic, and solution-orientated in every interaction. By embracing these values, Rachel strives to uphold Singapore's reputation for exceptional service, providing comfort and connection that resonate well beyond the lobby doors.

True hospitality means giving the best version of myself when serving guests. Even on difficult days, I must ensure each guest feels respected, supported, and cared for.

– *Rachel*



Irfan Zulhelmy Bin Rohizam

Irfan's exceptional skills in Aircraft Maintenance, demonstrated through his mastery of sheet metal fabrication, composite repair, and engine inspection, earned him the honour of representing Singapore at the 47th WorldSkills Competition in Lyon and a Gold at WorldSkills Singapore 2023. His technical expertise, honed through rigorous training at the Lufthansa Technical Training Centre and hands-on experience at Bombardier Aerospace Services Singapore, showcases his ability to excel under pressure.

Selected for his resilience, precision, and drive to innovate, Irfan embodies the values of excellence and collaboration essential to advancing Singapore's aerospace industry on a global stage.

Competition Segment:
Transportation and Logistics

Specialisation:
Aircraft Maintenance

Award(s):



**WorldSkills Singapore
2023 - Gold**



**Lufthansa Technical Training
Award of Excellence in
SAR-66 B1**



**Edusave Award for
Good Leadership & Service
(EAGLES)**



**WorldSkills Lyon, France
2024 - Certificate of
Participation**

Technical Competencies:

- **Computer-Aided Design (Creo 7)**
- **Python**
- **Aircraft Systems Knowledge**
- **Technical Documentation Interpretation**

Key Accomplishments

Mentors and supervisors lauded Irfan for his meticulous hand skills, diverse technical knowledge, and eagerness to learn from colleagues with varied expertise. While acknowledging that teamwork remains an area for continued growth, they praised his problem-solving approach, adaptability, and determination—qualities well-suited to the high-stakes aerospace sector.

These endorsements and his track record at WorldSkills Competitions, where he achieved a **Gold at WorldSkills Singapore 2023** confirm Irfan's readiness to tackle demanding tasks in a safety-critical environment.



Education & Experiences

Educational Background:

Temasek Polytechnic's aviation-focused curriculum strengthened Irfan's technical proficiency and problem-solving approach, particularly through modules like Aircraft Electrical Design Systems, Aircraft Electrical Fundamentals, and Sustainability & Climate Action.

He also completed advanced maintenance training at the **Lufthansa Technical Training Centre (LTTC)**, where he earned a **Certificate of Excellence**—awarded to students who demonstrated exceptional performance. This immersive program refined his expertise in aircraft servicing techniques, including sheet metal fabrication, composite repair, and engine inspection—ultimately bolstering his confidence in future industry endeavours.

Work & Internship Experience:

During his internship at **Bombardier Aerospace Services Singapore (BASS)**, Irfan partnered with experienced engineers on electrical modifications, inspections, and mechanical tasks. This hands-on setting required precision and accountability under tight time constraints.

Rotating among B1 and B2 technicians further heightened his adaptability and teamwork skills. His specialised training at LTTC deepened his skill set for WorldSkills competition demands, reinforcing his time management, attention to detail, and mastery of maintenance manuals.

Projects & Achievements:

Irfan's drive to excel culminated in a **Gold at WorldSkills Singapore 2023**, demonstrating resilience, accuracy, and efficiency under pressure. In simulated repair projects, he demonstrated advanced troubleshooting for sheet metal fabrication and aircraft structures, and handled design and testing for a hydraulic jack.

Although he did not secure a medal at WorldSkills Lyon 2024, the global exposure broadened his professional network and highlighted his adaptability under challenging timelines and standards.



Endorsements



With his sheer determination, exceptional hands skills and ability to overcome difficult situations, he competed in the national competition and won himself the honour of representing Singapore at the 47th WorldSkills Competition in Lyon. Though he was the youngest (age 19) among the international competitors (age 24 and 25), his performance in Lyon is commendable. After WSC in Lyon, Irfan has been assisting our coaches in the training of new batch of competitors for the next national competition, WSS 2025.

– **Mr. Stephen D'Silva**

Coach and Lead Instructor at Temasek Polytechnic's School of Engineering



Irfan's Aspirations & Goals

Professional Pursuits:

Irfan aspires to become a **licensed aircraft engineer** within a prominent organisation, where he can unite technical excellence with a commitment to sustainable innovations in aviation. In the coming years, he sees himself refining maintenance protocols, engaging in collaborative research, and advancing engine and structural reliability. By keeping pace with rapid technological shifts, he plans to apply his strong foundation in thermodynamics, aerodynamics, and gas turbine engines to push for safer, more efficient flight operations.

Future and Industry Impact:

Beyond personal achievements, Irfan hopes to foster an industry culture in which ecological responsibility and social impact blend seamlessly with performance demands. Recognising that aviation's evolution must address environmental concerns, he envisions championing greener fuels and advanced propulsion systems. Through ethical leadership and ongoing learning, he wants to ensure that future aerospace developments balance cost-effectiveness, safety, and sustainability—securing a better, more eco-conscious future for the aerospace sector.



In Irfan's Voice

Embodying this philosophy, Irfan transforms obstacles into catalysts for growth. He also lives by the classic call to

"Carpe diem."

seizing each opportunity that crosses his path. Reflecting on his long journey—such as representing Singapore at WorldSkills Lyon 2024—he treasures the lessons learned, friendships forged, and unwavering drive for continual improvement. While the competition spanned two intense years, the deeper reward for Irfan lies in the personal and professional growth he experienced. Now, he stands ready to keep learning, keep innovating, and elevate the aviation world to greater heights.

Learning never stops.
Each experience, whether
positive or challenging,
shapes who I am and propels
me forward.

– **Irfan**



Wong Wee Werrill

Werrill has demonstrated outstanding proficiency in Logistics & Freight Forwarding, a skill essential to Singapore's global trade and supply chain sector. His Gold Medals at WorldSkills Lyon 2024 and WorldSkills Singapore 2023 highlight his technical expertise, problem-solving acumen, and ability to excel under pressure. From optimising supply chain solutions to navigating complex freight operations, Werrill's resilience, adaptability, and strategic mindset set him apart.

Selected for his discipline and innovative approach, Werrill embodies the qualities necessary to drive advancements in sustainable and efficient logistics, reinforcing Singapore's position as a leading global trade hub.

Competition Segment:
Transportation & Logistics

Specialisation:
Logistics & Freight Forwarding

Award(s):



WorldSkills Singapore
2023 - Gold



WorldSkills Lyon, France
2024 - Gold



Belt and Road International Skills Competition
2024 - Bronze

Technical Competencies

- **Data Analysis Tools – Microsoft Office, Power BI, KNIME**
- **Logistics Software – CargoWise One**
- **Logistics Solution Design**

Key Accomplishments

Earning top honours on the global stage, Werrill achieved a **Gold Medal at WorldSkills Lyon 2024 and a Bronze at the Belt and Road International Skills Competition 2024**, affirming his technical expertise and composure under pressure.

Mentors at Logwin Air + Ocean and WorldSkills coach recommend his strong **work ethic, resilience, and collaborative spirit**. His ability to integrate smoothly into teams, communicate clearly, and adapt quickly to unforeseen challenges reflects a professional poised for success in high-stakes environments.

By performing at the highest level of competition, Werrill demonstrated the precision, creativity, and forward-thinking approach that align seamlessly with Singapore's evolving supply chain and logistics landscape.



Education & Experiences

Educational Background:

Werrill's diploma in *International Trade & Logistics* at Temasek Polytechnic sharpened his technical foundations in *transportation, procurement, and warehousing*. Rigorous modules and project-based learning honed his analytical thinking, fostering proficiency in freight documentation, customs compliance, and container optimisation.

Work & Internship Experience:

As a *management trainee at Logwin Air + Ocean*, Werrill rotated through multiple departments, gaining a holistic view of the supply chain. He coordinated ocean and air shipments, handled warehousing operations, and engaged customers directly—developing communication, teamwork, and time management skills.

Projects & Achievements:

From orchestrating a complex door-to-door shipment from Poland to Singapore to excelling at the LCL consolidation process, Werrill's real-world experience underscores his problem-solving acumen and adaptability.

Beyond his accomplishments in competitions, his pursuit of excellence also earned him a place on the Director's List for multiple years, along with five prestigious Module Prizes—awarded to the top-performing student in each subject. These include the TTI Electronics Prize (Supply Chain Management and Technology), the Koh Soon Eng Prize (Business Statistics), the PSA Corporation Prize (International Trade & Transport), the Koh Soon Eng Prize (Distribution Centre Management), and the Hitachi Vantara Prize (Procurement and Materials Management).



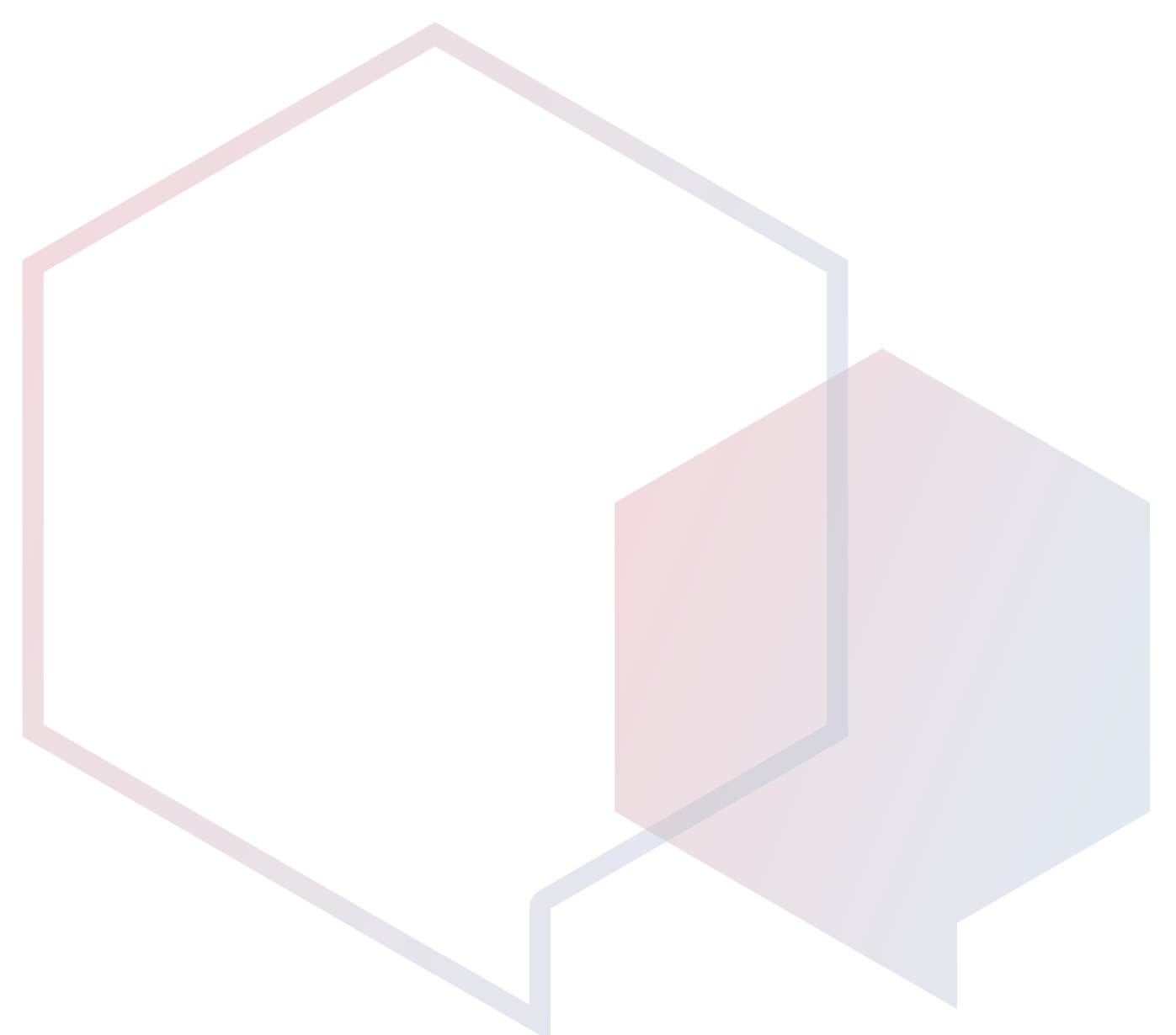
Endorsements



One of Werrill's most notable qualities is his genuine passion for learning and personal growth. He always shows eagerness and capacity to learn, actively seeking opportunities to expand his knowledge.

– *Jimmy Ler*

Country Director of Logwin Air + Ocean Singapore





Werrill's Aspirations & Goals

Professional Pursuits:

With an eye on continuous personal development, Werrill aims to broaden his expertise through **further education** and practical experiences in logistics. While open to diverse roles—be it managing teams, engaging in sales, or pursuing educational leadership—his core objective remains to elevate the sectors he joins. He hopes to tackle industry issues like **sustainability, operational resilience, and talent development** by synthesising emerging technologies and strategic thinking.

Future and Industry Impact:

In the long term, Werrill envisions using **innovation** and data-driven solutions to enhance supply chain processes and profitability. His ultimate ambition is to contribute to a **modern, efficient, and planet-friendly** logistics framework that advances Singapore's economic role. By championing responsible practices, fostering knowledge-sharing, and refining operational models, he seeks to help shape a more robust and conscientious supply chain landscape—one where productivity and people's well-being intersect constructively.



In Werrill's Voice

Upholding this credo, Werrill leans on hard work, steady discipline, and an acceptance of uncertainty as he approaches new challenges. He also draws inspiration from a simpler maxim:

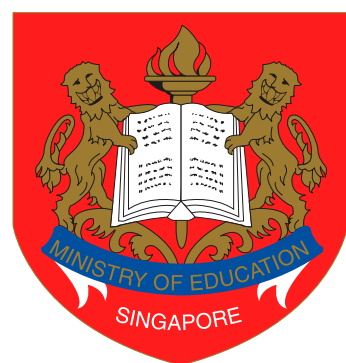
"Just send it."

For him, it epitomises the courage to seize opportunities, even when outcomes are unclear. Together, these convictions fuel his motivation to refine solutions in logistics, ensure seamless customer experiences, and ultimately contribute to a supply chain that resonates with efficiency, adaptability, and meaningful progress.

Do your best
and let God
handle the rest.

– **Werrill**

In Collaboration With

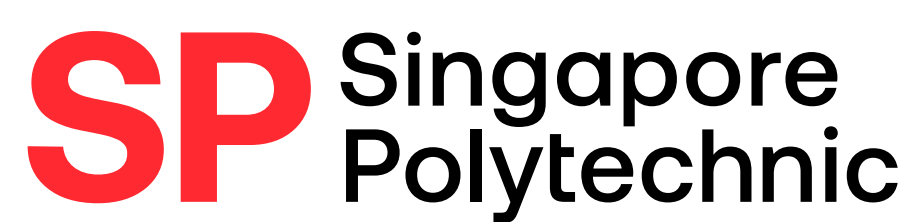


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