

MAIER TAN

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PROFILE

Mechanical Engineering undergraduate with experience in CAD design, UAV structural design, and aviation operations. Strong background in SolidWorks, FEA-assisted design, and hands-on teamwork. Seeking entry-level roles in mechanical design, aerospace, or product development environments.

EDUCATION

National University of Singapore (NUS) Aug 2023 – Aug 2026
(Expected)
Bachelor of Mechanical Engineering

Ngee Ann Polytechnic (NP) Apr 2018 – Mar 2021
Diploma in Engineering with Business Management
• CGPA: 3.65 / 4.00

ENGINEERING PROJECT & TECHNICAL EXPERIENCE

AeroNUS | Structural Design and CAD Lead | AIAA Design-Build-Fly Aug 2025 - Present
• Led CAD design of an electric-powered UAV airframe using SolidWorks
• Performed FEA simulations to optimize structural integrity while minimizing weight
• Collaborated with aerodynamics and propulsion teams to ensure design integration and manufacturability
• Ensured compliance with fabrication constraints and competition requirements

WORK EXPERIENCE

Republic of Singapore Airforce (RSAF) Sep 2022 – Aug 2023
Air Warfare Officer
• Commanded round-the-clock operations dedicated to the defence and security of Singapore's airspace.
• Directed and facilitated comprehensive training programmes for officer cadets, cultivating high standards of readiness and leadership in air defence operations.
• Planned and organised the RSAF open house, effectively showcasing the capabilities and professionalism of the RSAF to the public.

Jet Aviation (Asia Pacific) Pte Ltd Sep 2020 – Jun 2021
Project Management Office Intern / Project Assistant Manager
• Conducted thorough audits of paperwork to ensure accuracy and compliance with Civil Aviation Authority of Singapore's (CAAS) regulatory standards.
• Developed and implemented a new system to enhance operational efficiency for the project management office.
• Successfully transitioned from an intern to a Project Assistant Manager due to exemplary performance during the internship.

TEACHING EXPERIENCE

Nanyang Educational Consultancy July 2024 - Present
Mathematics Tutor
• Design and develop customized learning materials tailored to each student's learning pace and needs.
• Foster a positive learning environment that encourages curiosity, confidence, and critical thinking in problem-solving.

LEADERSHIP & AWARDS

- **National Day Parade 2023 - Ambassador**
- **President, Ngee Ann Canoe Club (2019 - 2021)**
- **Ngee Ann Scholarship (2018 - 2019)**
- **Chief Commissioner's Award (2017)**

SKILLS & INTERESTS

- **TECHNICAL:** SolidWorks (CSWA), Basic FEA, Microsoft Office
- **LANGUAGE (Written and Spoken):** English (Fluent), Thai (Basic) and Mandarin (Basic)