

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) Bachelor of Mechanical Engineering	Aug 2023 – Aug 2026 (Expected)
Ngee Ann Polytechnic (NP) Diploma in Engineering with Business Management <ul style="list-style-type: none">CGPA: 3.65 / 4.00	Apr 2018 – Mar 2021

ENGINEERING PROJECT & TECHNICAL EXPERIENCE

AeroNUS Structural Design and CAD Lead AIAA Design-Build-Fly	Aug 2025 - Present
<ul style="list-style-type: none">Led CAD design of an electric-powered UAV airframe using SolidWorksPerformed FEA simulations to optimize structural integrity while minimizing weightCollaborated with aerodynamics and propulsion teams to ensure design integration and manufacturabilityEnsured compliance with fabrication constraints and competition requirements	

WORK EXPERIENCE

Republic of Singapore Airforce (RSAF) Air Warfare Officer	Sep 2022 – Aug 2023
<ul style="list-style-type: none">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 Project Management Office Intern / Project Assistant Manager	Sep 2020 – Jun 2021
<ul style="list-style-type: none">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 Mathematics Tutor	July 2024 - Present
<ul style="list-style-type: none">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)