Thaddeus Chua

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EDUCATION

Nanyang Technological University   Aug 2022 - Present
Bachelor of Aerospace Engineering, Expected Honours (Merit)   *Singapore*
- Member, NTU Aerospace Society
- Exchange Semester at University of Sheffield (Sept 2023 - Feb 2024)

Singapore Polytechnic   Apr 2017 - May 2020
Diploma in Aeronautical Engineering   *Singapore*
- 3-year diploma course including a 6-week overseas attachment and a 6-month internship programme

PROFESSIONAL EXPERIENCE

SIA Engineering Company   May 2024 - Aug 2024
Engine Services Division Continuous Improvement, Intern   *Singapore*
- Led digitalisation of Value Stream Mapping (VSM), creating dashboards in VBA/Access to track LEAN projects (Clean Start)
- Proposed process improvements and supported implementation for efficiency gains
- Strengthened knowledge in project management and cross-team collaboration

Singapore Aero Engine Services Pte. Ltd.   Sep 2019 - Feb 2020
Quality Control Department, Intern   *Singapore*
- Developed SQL- and VBA-based system to digitalise QC data storage, eliminating approximately 100% of hardcopy/manual records
- Collaborated with engineers to streamline inspection workflows

AMECO   Mar 2019 - Apr 2019
Student Engineer   *Beijing, China*
- Hands-on exposure to aircraft maintenance (engine repair, landing gear, structures) across 6 modules

PROJECTS

Tandem Configuration for the Palm Grass Foil   Jan 2023 - Present
Final Year Project   *Nanyang Technological University*
- Conducting experimental and computational analysis of tandem flapping foils for energy-harvesting applications

WatchLingo   Jan 2023 - May 2023
Team Leader   *Nanyang Technological University*
- Led 9-member team to design prototype and develop business plan; presented to panel of 15 industry judges

Python Engineering Drawing   Jan 2023 - Apr 2023
Student Project   *Nanyang Technological University*
- Developed skills in Python over 3 months, learning the basics and translating it into a final assignment
- Designed Python programme using coordinates to draw and hatch shapes in 3 weeks

LEADERSHIP & ACTIVITIES

Singapore Polytechnic Swim Team   Apr 2017 - May 2020
Team Member
- Managed logistics and represented in inter-institutional competitions

Singapore Polytechnic Overseas Social Innovation Project   Sep 2018
Participant
- Designed solutions to improve local crop harvesting efficiency by approximately 50%

CERTIFICATIONS & SKILLS

Certifications: NAUI Dive Master (2025), WSQ Certificate in Security (2021), LinkedIn Learning Finance Foundation Certification (2020), Korean Language Certification Basic (2017)
Digital Skills: Python, HTML, CSS, JavaScript, C++, Microsoft Suite, AutoCAD, SolidWorks, MATLAB
Languages: English (Native), Mandarin (Proficient), German (Basic), French (Basic), Korean (Basic)