

# THO JIA QI

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## ASPIRING AEROSPACE ENGINEER

Aerospace Engineering graduate with focus in supply chain, UAV systems, and design prototyping. Experienced in CAD, 3D printing, and testing through hands-on internships. Practical, adaptable, and solution driven.

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## SKILLS

Microsoft Office, C++, Python, Arduino, Matlab, Solidworks, Creo, Catia, Minitab, Ansys, Abaqus, Soldering

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## EDUCATION

<b>Bachelor of Engineering (Honors with Merit) in Aerospace Engineering</b> Singapore Institute of Technology – University of Glasgow	AUG 2022 – APR 2025
<b>Diploma in Aerospace Systems and Management</b> Nanyang Polytechnic	APR 2019 – MAY 2022

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## WORK EXPERIENCE

<b>Product and Innovation Engineering Intern</b> ST Engineering Aerospace Ltd. – Aircraft Engineering Department   Singapore Supported aircraft interior design and prototyping using CATIA and CREO, working closely with the engineering team to develop and test cabin solutions. <u>Key Projects and Achievements</u> <ul style="list-style-type: none"><li>Designed PRM lavatory for Boeing 737 NG and supported CMM documentation.</li><li>Delivered improved cabin seat prototype, successfully tested onboard Singapore Airlines aircraft.</li><li>Successfully developed a working weather shelter prototype for CPAS through 3D design and user trials.</li></ul>	MAY 2024 – DEC 2024
<b>Unmanned Aerial Vehicles (UAV) Training Assistant</b> Just Fly It Pte. Ltd.   Singapore <ul style="list-style-type: none"><li>Facilitated drone flight operations for 40+ students from international and MOE schools, managing setup, safety checks, and in-flight monitoring.</li><li>Delivered hands-on guidance and ensured safety regulatory compliance through demonstrations, real-time feedback, and technical troubleshooting.</li></ul>	MAR 2024 – PRESENT
<b>Technical Administrative Assistant</b> Setsco Services Pte. Ltd.   Singapore <ul style="list-style-type: none"><li>Generated and analysed material test reports for critical hardware in compliance with ISO, ASTM, and AISI standards.</li><li>Managed client communications, lab registrations, and timely delivery of accurate, detailed reports.</li></ul>	MAR 2022 – JUL 2022

**Assistant Associate Engineer**

MAY 2021 – OCT 2021

ST Engineering Electronics Ltd. | Singapore

- Assembled and tested 70+ military-grade fusion cameras; ensured quality and performance compliance.
- Supported team training and was offered a full-time role following internship completion.

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**RELEVANT PROJECTS**

**Quadcopter Propeller Optimization Using CFD**

DEC 2024 – APR 2025

Singapore Institute of Technology | Singapore

- Conducted CFD with MRF analysis to evaluate and redesign quadcopter propeller blades in SolidWorks.
- Successfully improved thrust and efficiency, validated through MRF-based performance testing.

**Autonomous UAV Payload Delivery System**

JAN 2025 – APR 2025

Singapore Institute of Technology | Singapore

- Collaborated on the development of a drone capable of autonomous flight, payload delivery, and simultaneous landing using ArUco markers.
- Integrated LiDAR and colour recognition for obstacle avoidance, inspired by firefighting UAVs and SAFMC Cat D2 challenge requirements.

**Autonomous Cargo Airport Design Project**

JUL 2023 – AUG 2023

University of Glasgow | United Kingdom

- Led cross-disciplinary team to design a cargo airport concept based on geographic and operational analysis.
- Conducted key infrastructure calculations and presented final design to SIT and Glasgow faculty.

**UV LED Characterization for Disinfection Applications**

MAY 2021 – OCT 2021

A\*STAR Institute of Manufacturing Technology | Singapore

- Conducted experimental testing of UV LEDs for disinfection using precision instruments and thermal control systems.
- Supported data analysis and result comparison as part of a collaborative research project.

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**AWARDS AND RECOGNITION**

<b>Human Factors Training Course</b>	2025
<b>6 Sigma Yellow Belt Certification</b>	2024
<b>Edusave Good Progress Award</b>	2021
<b>Silver Star Awards</b>	2019
<b>Innovation and Enterprise Bootcamp</b>	2019