

Zhao Zehui

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EDUCATION

The University of Hong Kong

2022 – now

Mechanical Engineering

LANGUAGE

Chinese (Cantonese & Mandarin) - Proficient

English - Proficient

German - Basic

WORK EXPERIENCES

Faculty of Engineering, University of Hong Kong

Part-time Temporary Student Research Assistant

Hong Kong

Sept 2025 - now

- Undertaking role as a student assistant in course workshops which involve workshop mentoring on robotic arm control, design, and provide feedback for lecturers on behalf of the teaching content

Feelings Group Limited | HKSTP

Student Technician – Hardware team

Hong Kong

Dec 2024 – Jan 2025

- Performed literature study, research and market study for medical device development in Radar hardware systems for tracking health conditions.
- Gained experience in camera development using electronic modules, such as Raspberry Pi, LAN network and camera module.

The Hong Kong and China Gas Company Limited (Towngas)

Summer intern in residential product & development department

Hong Kong

Jul - Aug 2024

- Contributed to the development of IoT gas appliances. Identified potential problems in functional tests of gas appliances and provided effective suggestions to enhance user-friendliness of the mobile app interface for boss.
- Assisted in the assessment of gas appliance accessories such as flexible hose and gas malleable iron fittings.
- Helped boss to analyze market potential for company's products and participated in daily meetings to understand team's structure, working principles.

The University of Hong Kong

Summer Training Assessment

Hong Kong

May - Jun 2024

- Gained experiences in circuits construction and LabVIEW programming, including signal processing, pneumatic control, real-time data acquisition, and dynamic waveform generation on thermocouple.
- Gained hands-on practices in machining tools, including operating lathe, milling, grinding machines to manufacture vice and rack and refining metals.
- Gained experiences in CAD/CAM design and functions, including FEA, CNC Path generation on SW, building layout plan on AutoCAD.

PROJECTS & COMPETITIONS

HKU DBF Team (AIAA) (2026)

Admin Leader (2025), Team Leader (2026)

- Research analysis and calculation for main wing; Aerodynamic analysis on airfoils and wing, and CFD analysis on entire model aircraft.
- Banner towing mechanisms using electronics, Avionics and 3D printing for prototypes.
- Team administrative including team progress monitoring, school funding proposal writing, poster design and management of new members

Cathay Pacific Career Experience Day (2025)

- A 1-hour mock hackathon in CX city which I worked with 3 other students to come up with an 800K project proposal. Oversaw product design and market research

RAICOM Robotic Arm Challenge (2025)

- Broke down the structure of the algorithm for automated and semi-automated missions.
- Controlled the robotic arm Programed robotic arm for movement interruption with Generative AI

HKU Drone Team (2024)

- Hardware team member, gained experience in drone assembly and soldering

Hong Kong Techathon (2023)

- Designed an app interface for educational purposes in subjects related to Astronomy

IMechE Affiliated Member

Physics Society, HKU (2023)

- General, Publication and publicity secretary

HKIE Student Member

- Aircraft division

SKILLS & INTERESTS

CAD Software:

SolidWorks (Proficient), AutoCAD (Proficient)

CFD Software:

Xflr5 (Proficient), Ansys (Working level)

Other Software:

Microsoft Office Suite (Intermediate)

Programming:

MATLAB (Intermediate), Arduino (Working level), Python (Working level), Orange data mining (Working level)