Ju Lin

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Education

The Hong Kong Polytechnic University   2021 – 2025

- BEng (HONS) in Aviation Engineering
- Minor in Electronics & Information Engineering
- Major Ranking: 9/57 (as of 2024/25 Semester One)

Languages

English (IELTS Academic Band 8), Cantonese (Full Proficiency), Mandarin (Native), Teochew (Native)

Work Experience

Co-Founder   May 2024 – Present
EVTOLASIA – Kowloon, Hong Kong

- Launched the first newsletter dedicated to Asian eVTOLs, highlighting developments in the Low-Altitude Economy and eVTOL technologies.
- Curated content featuring the latest insights, policies, and technological advancements in the eVTOL industry.
- Invited as media to various industry conferences and exhibitions.
- Conducted interviews and discussions with key stakeholders in the eVTOL ecosystem, including manufacturers, policymakers, and investors.

Research Intern   Dec 2024 – Jan 2025
Intelligent Positioning and Navigation Laboratory, PolyU – Kowloon, Hong Kong

- Collected and pre-processed raw data from various positioning sensors and drones.
- Worked closely with the research team to develop and train machine learning models.
- Analyzed data to identify patterns, trends, and insights.
- Prepared detailed reports and presentations on findings and project progress.
- Participated in team meetings and contributed to project planning and review sessions.

Research & Development Intern   Jul 2024 – Aug 2024
Ghent University – Ghent, Belgium

- Interned in Ghent University Research Group Sustainable Thermo-Fluid Energy Systems (STFES).
- Worked on an experimental setup called the "two-phase injection compressor".
- Experimented on the performance of a compressor based on the conditions of the working fluid at the intake and injection ports.

Research Intern   Mar 2024 – Aug 2024
LifeSparrow Solutions Limited – New Territories, Hong Kong

- Assisted in developing AI models for drone imagery.
- Participated in AR/VR simulations for enhancing AI training processes.
- Crafted intuitive UI/UX for web interfaces that interact with drone data.
- Collaborated on diverse projects, gaining a holistic experience across various tech spectrums.

Deputy Director, Powertrain Lead & Driver   Jul 2023 – Aug 2024
Powertrain Engineer   Sep 2022 – Jul 2023
PolyU E-Formula Racing Team – Kowloon, Hong Kong

- Supervised the development of the 6th generation of racing car.
- PIC of the 06E racing car's powertrain system.
- Participated in the Formula Student 2023 at Silverstone, UK, and Formula Student Electric China 2023 at Hefei, China.

Research Experience

Low-Cost Indoor Smartphone Camera Localization Using Spherical Panorama and BIM	Sep 2024 – Present

Intelligent Positioning and Navigation Laboratory

Research Project supervised by Dr. Li-Ta Hsu.

Sensor Fusion Platform Building and Dynamic Sensor Weighting with Multimodal LLMs	Sep 2024 – Present

Intelligent Positioning and Navigation Laboratory

Capstone Project supervised by Dr. Li-Ta Hsu, and PhD Candidate Mr. Max Lee.

Automated Data Standardization using Large Language Models	Mar 2024 – Present

Intelligent Positioning and Navigation Laboratory

Supported by Hong Kong University Grants Committee Research Impact Fund on the project R5009-21, and supervised by Dr. Li-Ta Hsu.

Research and Development of AI-aided GNSS Software Receiver	Sep 2022 – Sep 2023

Undergraduate Research and Innovation Scheme

Individual research project supervised by Dr. Li-Ta Hsu, and co-supervised by Dr. Guohao Zhang.
Research Grant: HK$ 30,000 (approx. US$ 3,861)
Scholarship: HK$ 10,000 (approx. US$ 1,287)

Industrial Projects

Cargo Operation Safety Detection & Alert System	Oct 2024 – Dec 2024

POC Project with Airport Authority Hong Kong

Volunteering

Tanzania Service Trip	Tanga, Tanzania

Team Leader

Time: January 2024
Collaborated NGO: Projekt Inspire, Tanzania

PolyU Info Day	Hong Kong

Student Ambassador

Time: October 2023

Hainan Voluntary Teaching	Hainan, China

Team Leader

Time: June 2023
Collaborated NGO: HeartFire Education, Hong Kong

Motivational Speaker	Shantou, China

Time: January 2022 – February 2022
Collaborated with: Shantou Jinshan Middle School

Awards

Dr. Y.K. Ching Memorial Scholarship	Nov 2023
2023 Formula Student Electric China – 3rd Prize	Nov 2023
Undergraduate Research and Innovation Scheme Scholarship	Oct 2023
2023 Formula Student UK – Certificate of Participation	Aug 2023
Mathematical Contest in Modeling – Successful Participant	Jun 2023
HKSAR Government Scholarship Fund – Reaching Out Award 2022/23	Apr 2023
Outstanding Graduate	Jun 2021

Publications

[Paper] Exploring the feasibility of automated data standardization using large language models for seamless positioning   2024

M. J. L. Lee, *Ju Lin*, L.-T. Hsu

International Conference on Indoor Positioning and Indoor Navigation (IPIN), 2024.

[GitHub] Enhancing Positioning Accessibility through Large Language Model-Driven Data Standardization   TBC

M. J. L. Lee, *Ju Lin*, L.-T. Hsu

Submitted to IEEE Internet of Things Journal (IoT-J).

Framework for Low-Cost Indoor Smartphone Camera-based Localization Using Spherical Panorama and BIM   TBC

M. J. L. Lee, *Ju Lin*, L.-T. Hsu

Submitted to IEEE Sensors.

Exposures

[Link] Shenzhen eVTOL Expo 2024   Shenzhen, China
Invited Media

[Link] The World Artificial Intelligence Conference (WAIC) 2024   Shanghai, China
Exhibitor

ETTE Symposium 2025   Kowloon, Hong Kong
Student Panelist