# 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 & Tech Lead** Jan 2025 – Present

*EmoBay – Kowloon, Hong Kong*

I am responsible for all tech-related development of EmoBay, an innovative AI-powered mental health platform transforming emotional wellness. It provides 24/7 chatbot support, therapist matching, and emotion tracking, delivering accessible, stigma-free, and culturally sensitive care. Targeting young adults, workplaces, and educational institutions, EmoBay empowers resilience and bridges mental health accessibility gaps through cutting-edge technology.

**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

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| **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

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| *[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

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| *[Link]* **Shenzhen eVTOL Expo 2024**<br>*Invited Media* | Shenzhen, China |
| *[Link]* **The World Artificial Intelligence Conference (WAIC) 2024**<br>*Exhibitor* | Shanghai, China |
| *[Recording]* **ETTE Symposium 2025**<br>*Student Panelist* | Kowloon, Hong Kong |
| **"Student Voices" Panel Discussion on Generative AI in Education**<br>*Student Panelist* | Kowloon, Hong Kong |