

Ju Lin

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Education

Imperial College London	2025 – 2026
• MSc in Applied Computational Science and Engineering	
The Hong Kong Polytechnic University	2021 – 2025
• BEng (HONS) in Aviation Engineering • Award GPA: 3.40/4.30 (8/55)	

Languages

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

Work Experience

CTO & Co-Founder	Jan 2025 – Present
<i>EmoBay Limited – Kowloon, Hong Kong</i>	
• Co-founded AI-driven platform; secured funding from PolyVentures Micro Fund and HKSTP Ideation Scheme. • Led end-to-end development of web, mobile, and server platforms, integrating LLM fine-tuning, RAG pipelines, and scalable infrastructure for 500+ existing users.	
Research Intern	Dec 2024 – Jan 2025
<i>Intelligent Positioning and Navigation Laboratory, PolyU – Kowloon, Hong Kong</i>	
• 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
<i>Ghent University – Ghent, Belgium</i>	
• 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
<i>LifeSparrow Solutions Limited – New Territories, Hong Kong</i>	
• 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
<i>PolyU E-Formula Racing Team – Kowloon, Hong Kong</i>	
• 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

[GitHub] FusionFly: A Scalable Open-Source Framework for AI-Powered Positioning Data Standardization <i>Intelligent Positioning and Navigation Laboratory</i> Capstone Project supervised by Prof. Li-Ta Hsu.	Sep 2024 – May 2025
Low-Cost Indoor Smartphone Camera Localization Using Spherical Panorama and BIM <i>Intelligent Positioning and Navigation Laboratory</i> Research Project supervised by Prof. Li-Ta Hsu.	Sep 2024 – Mar 2025
Automated Data Standardization using Large Language Models <i>Intelligent Positioning and Navigation Laboratory</i> Supported by Hong Kong University Grants Committee Research Impact Fund on the project R5009-21, and supervised by Prof. Li-Ta Hsu.	Mar 2024 – Mar 2025
Research and Development of AI-aided GNSS Software Receiver <i>Undergraduate Research and Innovation Scheme</i> Individual research project supervised by Prof. 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)	Sep 2022 – Sep 2023

Industrial Projects

Cargo Operation Safety Detection & Alert System <i>POC Project with Airport Authority Hong Kong</i> An agentic framework, integrating YOLO and LLMs, has been streamlined and installed to automate HKIA's daily cargo operation safety detection.	Oct 2024 – Dec 2024
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Publications

[Paper] Framework for Low-Cost Indoor Smartphone Camera-based Localization Using Spherical Panorama and BIM M. J. L. Lee, <i>Ju Lin</i> , L.-T. Hsu IEEE Sensors Journal. DOI: 10.1109/JSEN.2025.3613996	2025
[Poster] The Integration of Artificial Intelligence in Nursing Education: Student Engagement and Clinical Reasoning Skills Ka Pik Katherine Chang, On Yu Mak, Yi Yan Mok, Tsz Ho Wong, <i>Ju Lin</i> International Council of Nurses (ICN) Congress 2025, 9–13 June 2025, Helsinki, Finland.	2025
[Paper] Exploring the feasibility of automated data standardization using large language models for seamless positioning M. J. L. Lee, <i>Ju Lin</i> , L.-T. Hsu International Conference on Indoor Positioning and Indoor Navigation (IPIN), 2024. DOI: 10.1109/IPIN62893.2024.10786123.	2024
[GitHub] Enhancing Positioning Accessibility through Large Language Model-Driven Data Standardization M. J. L. Lee, <i>Ju Lin</i> , L.-T. Hsu Submitted to Applied Soft Computing Journal.	TBC

Volunteering

Tanzania Service Trip <i>Team Leader</i> Time: January 2024	Tanga, Tanzania
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Collaborated NGO: Projekt Inspire, Tanzania

PolyU Info Day

Student Ambassador

Time: October 2023

Hong Kong

Hainan Voluntary Teaching

Team Leader

Time: June 2023

Collaborated NGO: HeartFire Education, Hong Kong

Hainan, China

Awards

Faculty of Engineering Dean's Honours List	Sep 2025
Scholarship for Student Initiated Global Citizenship and Leadership Project	Aug 2025
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

Exposures

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