

Yi Lin

Email: ylinax@connect.ust.hk · Github: github.com/WayneTimer

Education

Hong Kong University of Science and Technology

MPhil. in Electronic and Computer Engineering (Supervisor: Prof. Shaojie Shen)

Hong Kong

Aug. 2015 – Aug. 2017

Harbin Institute of Technology

B.Eng. in Software Engineering

Harbin, China

Aug. 2011 – Jul. 2015

Professional Experience

DJI Technology

Jul. 2014 – Jul. 2015, Aug. 2017 – Mar. 2026, T6

Chief Engineer (Flight Systems Domain), Consumer BU

Jun. 2025 – Mar. 2026

- Lead all consumer flight product lines (Mavic/Air/Mini/Neo/FPV series, etc.), overseeing perception, navigation, and flight control systems
- Manage flight systems SE teams. Contributed to the product roadmap by translating requirement into technical specifications for the autonomous flight module.
- Participated in overall system design. Researched Agentic AI workflows.

Team Lead, Perception Group, Consumer BU

Jun. 2025 – Nov. 2025

- Led consumer perception team; delivered perception systems for flagship products across consumer BU
- Mentored and developed team members

Team Lead, Perception Group, Enterprise BU

Apr. 2024 – May 2025

- Led enterprise perception team; delivered Matrice 4 series, Matrice 400, DJI Dock 3 and other enterprise products
- Led the integration of a multi-sensor (LiDAR, radar, vision) fusion perception stack into the production platform
- Managed supply chain and manufacturing quality issues for fisheye camera components

Senior Algorithm Engineer / Project Lead, Perception Team

Aug. 2017 – Mar. 2024

- Developed monocular obstacle avoidance for Mavic 2, productizing academic research into real-time embedded systems
- Led omnidirectional sensing development for Mavic Air 2, Matrice 300, Mavic 3, DJI FPV, and agricultural drones (T25/T50/T60)
- Pioneered rolling-shutter depth, fisheye depth, and low-light perception technologies; led flight system technical R&D exploration
- Designed full-stack perception-navigation-control pipeline on custom SoC and Nvidia platforms (Jetson TK1/TX2/Orin NX)
- Led cross-department technical coordination between perception, flight control, and navigation teams

Algorithm Engineer Intern, Vision / Heterogeneous Computing Group

Jul. 2014 – Jul. 2015

- Developed multi-camera Visual-Inertial Navigation System (VINS) on Nvidia Tegra K1 using tightly-coupled visual-inertial bundle adjustment with sliding window optimization

Selected Publications

Autonomous Aerial Navigation using Monocular Visual-Inertial Fusion

Yi Lin et al., Journal of Field Robotics (JFR)

Jul. 2017

Gradient-Based Online Safe Trajectory Generation for Quadrotor Flight in Complex Environments

Fei Gao, Yi Lin and Shaojie Shen, IEEE/RSJ IROS

Sept. 2017

Online Safe Trajectory Generation for Quadrotors using Fast Marching Method and Bernstein Basis Polynomial

Fei Gao, William Wu, Yi Lin, Shaojie Shen, IEEE ICRA

May 2018

Honors & Awards

Silver Medal, ACM-ICPC Asia Regional Invitation Contest (19th / 120 teams)

May 2013

Bronze Medal, ACM-ICPC Asia Regional Contest (twice)

Oct./Nov. 2013

First Prize, ACM-ICPC Heilongjiang Province Contest (twice)

May 2012, 2013