

# Ken Yu

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## WORK EXPERIENCE

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**Camera Software Engineer**, MediaTek Inc. Sept. 2023 - Sept. 2025

- Optimized and maintained mobile camera drivers to enable image warping, face detection, and segmentation, while supporting 10+ image compressed formats to reduce memory bandwidth
- Developed an LLM-powered log parsing tool that converts Android system logs into concise, human-readable summaries, reducing debugging time by 40% and adopted by 10+ team members
- Built a Python-based C code generator for IC validation, reducing validation effort by 85%

**Research Assistant**, NTU System Optimization Lab. Mar. 2020 – Oct. 2020

- Designed and implemented a multi-robot system capable of autonomously transporting 100 kg payloads, powered by Visual SLAM and Visual Odometry, achieving 50 mm localization precision

**Robotic Engineer**, Advanced Robotics CO., LTD. May 2018 – Mar. 2019

- Integrated multi-sensor localization (fiducial markers, encoders, LiDAR) and remote elevator control, enabling luggage robots to autonomously navigate 250+ hotel rooms across 8 floors

## EDUCATION

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**Communication Engineering**, Master of Science, National Taiwan University June 2023

- GPA: 4.23/4.3
- Thesis: *Image Recognition in Driving Scene: Monocular 3D Object Detection and Image Segmentation*
- CVGIP 2023 Best Paper Competition, Honorable Mention
- Selected Courses: Deep Learning in Computer Vision, Machine Learning, Operating System

**Mechanical Engineering**, Bachelor of Science, National Taiwan University June 2017

- Selected Courses GPA: 3.87/4.3
- Selected Courses: Computer Programming, Automatic Machine Design, Program Design

## PROJECT

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**MapleStory AutoBot**, 185+ stars, 90+ forks July 2025

- Created an online game auto-bot with OpenCV and a PySide6 interface for easier tuning and debugging, widely recognized on GitHub (on [github.com/KenYu910645/MapleStoryAutoLevelUp](https://github.com/KenYu910645/MapleStoryAutoLevelUp))

## SKILLS

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- Programming: Python, C, C++
- Software Dev: Gerrit, Confluence, PySide, Pandas
- Languages: English, Mandarin
- AI: PyTorch, OpenCV, YOLO, Segmentation, Codex