

Aaron Chou

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EXPERIENCE

Inventec Corporation , AI Center, Robotics, Advisor: Dr. Wei-Chao Chen Robotics Research Engineer — Quadruped Robots	Taipei, Taiwan Mar. 2025 – Present
<ul style="list-style-type: none">Learning-Based Control: Developed a low-level control SDK for quadruped platforms with no official API, enabling deployment of learning-based locomotion policies trained in IsaacGym and establishing reusable infrastructure.Terrain-Aware Navigation: Trained a 15 cm gap-traversal policy, implemented a feasibility-guided planning framework supporting skill selection on hybrid terrain, and contributed to an ICRA 2026 submission [1].SLAM Optimization: Improved single-LiDAR SLAM by dual-LiDAR fusion in ICRA 2025 QRC, achieving a 65% reduction in mapping-to-navigation time and enabling rapid terrain reconstruction in dynamic environments.	
Flytech Technology Co. Ltd. Robotics Engineer — Autonomous Mobile Robots	Taipei, Taiwan Mar. 2024 – Jan. 2025

Chien Kuo High School , FRC#8020 Cyberpunk Youth Mentor — Mechanical Design	Taipei, Taiwan Feb. 2022 – Jul. 2023
<ul style="list-style-type: none">Mentored 30+ students, guiding robot design, CAD/CAM, CNC fabrication, and testing of the competition-ready robot.	

EDUCATION

National Taiwan University (NTU) , <i>B.Sc. in Mechanical Engineering</i>	Taipei, Taiwan
<ul style="list-style-type: none">Last 60 GPA: 4.03/4.3 CGPA: 3.80/4.3Coursework: Automatic Control, Digital Control System, Kinematics, Dynamics, Computer Programming	Sept. 2018 – Jan. 2023
Aoyama Gakuin University (AGU) , <i>Exchange Program</i>	Tokyo, Japan

PUBLICATIONS

- [1] Y.-L. Chou, L.-C. Wang, H. Mandala, C.-Y. Lee, W.-C. Chen, et al. *Feasibility-Guided Planning over Multi-Specialized Locomotion Policies*, IEEE International Conference on Robotics and Automation (ICRA), 2026, under review. ([link](#))

PROJECTS

Isaac_MoveIt Manipulator Integration , <i>Collaborative Project</i> demo	Jun. 2025 – Present
<ul style="list-style-type: none">Integrated IsaacSim with MoveIt2, enabling manipulator control in simulation for future dexterous research.	
Differential-Wheeled Robot , <i>Independent Project</i>	Mar. 2022 – Aug. 2022

SKILLS

- Robotics:** IsaacGym, IsaacSim, ROS/ROS2 (navigation2, MoveIt2, FAST_LIO), Path Planning, Sensor Fusion, SLAM
Toolkits: Docker, Git, Blender, PCL, SolidWorks/CAM, LaTeX
Programming: Python, C++, Shell Scripting (Bash)
Languages: Mandarin (Native), English (Fluent), Japanese (Intermediate)

HONORS & COMPETITIONS

2025 ICRA Quadruped Robot Challenge (QRC) — Participation Certificate, Autonomous	Atlanta, GA
2023 Admission to Tohoku University, M.S. in Mechanical Engineering	Tohoku, Japan
2022 FIRST Robotics Competition (FRC) Sacramento Regional, Finalist (Team Mentor)	Sacramento, CA
2020 Fall Dean's List Award (top 5% of the class in the semester)	Taipei, Taiwan