

Taehun Ryu

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Experience

Graduate Research Intern <i>3D Vision & Robotics Lab, Advisor: Prof. Kyungdon Joo</i>	Jul 2024 – Feb 2025
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Education

Ulsan National Institute of Science and Technology (UNIST) <i>M.S-Ph.D. integrated course in Artificial Intelligence</i>	Mar 2025 – Present GPA: 4.10 / 4.3
Hanyang University ERICA <i>B.S. in Robotics</i>	Mar 2019 – Aug 2024 GPA: 4.18 / 4.5

Publications

[1] Taehun Ryu, Changwoo Kang, and Kyungdon Joo. **From Corners to Fiducial Tags: Revisiting Checkerboard Calibration for Event Cameras**. *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*. 2026.

Selected Research Projects

Stereo Visual SLAM Enhancement <i>3D Vision & Robotics Lab, UNIST</i> Integrated SSC-based ANMS into the ORB keypoint selection stage of ORB-SLAM3 to promote spatially balanced feature selection and improve tracking stability.	Jul 2024 – Nov 2024
Multi-Robot Localization and Tracking <i>Hanyang University ERICA</i> Developed a hybrid localization framework combining robot-internal EKF estimates (IMU, wheel encoder, and LiDAR) with ceiling-camera observations.	Sep 2023 – Jun 2024

Awards

• Gold Prize — College of Engineering Capstone Design Competition	Dec 2024
• Third Prize — National Intelligent Robotics Capstone Design Challenge	Nov 2024
• Undergraduate Student Paper Award — Institute of Control, Robotics and Systems, for the paper “Table Robot System for Complete Restaurant Hall Automation”	Jul 2024
• Grand Prize — Robotics Engineering Capstone Design Competition	Jun 2024
• Third Prize — Digital Innovation Shared University Robotics Competition	Jan 2023

Patents

- System and Method for Controlling a Table Robot (Korean Patent Application No. 10-2025-0008102, Patent Pending) Jan 2025

Scholarships

- National Excellence Scholarship in Science and Engineering Fall 2023
- Hanyang ERICA Academic Excellence Scholarship Spring 2024
- SHARE Academic Excellence Scholarship I Spring 2024, Fall 2022
- Special Academic Excellence Scholarship Fall 2023, Fall 2022

Skills

- **Programming:** C/C++, Python
- **Robotics:** ROS2
- **Tools:** Git, Docker
- **Certification:** Computer Specialist in Spreadsheet & Database Level-1