

Taehun Ryu

Graduate Student

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[Portfolio Site](#)

EDUCATION

Ulsan National Institute of Science and Technology Artificial Intelligence Graduate School, 3D Vision & Robotics Lab, M.S. course	03/2025 ~ Present GPA: 4.10/4.3
Hanyang University ERICA Major: Department of Robot Engineering Minor: Department of Artificial Intelligence	03/2019 ~ 08/2024 GPA: 4.18/4.5

RESEARCH INTEREST

Visual SLAM
Robot Vision

RESEARCH EXPERIENCE

Graduate Research Intern / UNIST / 3D Vision & Robotics Lab / Prof. Kyungdon Joo	07/2024 ~ 02/2025
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AWARDS

Hanyang University College of Engineering Capstone Fair / Hanyang Univ, ERICA / Gold Prize	12/2024
Intelligent Robot Consortium Creative Comprehensive Design Competition / Hanyang Univ, ERICA / Third Prize	11/2024
Undergraduate Student Paper Awards / ICROS 2024	07/2024
On-campus Creative Comprehensive Design Competition / Hanyang Univ, ERICA / Grand Prize	06/2024
Shared University Robot Production Competition / SHared Ai-Robotics Education / Third Prize	01/2023

PROJECTS

Development and Research of a Multi-Camera-Based SLAM System / CLOBOT • I researched on stereo visual SLAM system using Adaptive Non-Maximum Suppression(ANMS) algorithm.	07/2024 ~ 11/2024
Table Robot System for Complete Restaurant Hall Automation / Hanyang Univ, ERICA • Multi-robots' localization based on the Extended Kalman Filter algorithm using LiDAR and IMU. • Detection and tracking of each robot independently using YOLOv8 for extracting the robot's position from the camera which is on the ceiling.	09/2023 ~ 06/2024
2023 Self-Driving Challenge Virtual Track Division/ Hyundai Motor Group • I was part of the Perception Team, working on SLAM. • I worked on modifying the ORB-SLAM2 code to a version that fits the latest operating system.	05/2023
SRCIRC 2022 Humanoid Sports Division / Seoul National University of Science and Technology • I was responsible for vision processing tasks including recognizing marathon lines and hockey pucks. • I used Specific color detection in HSV space and Canny Edge Detection for my vision task.	10/2022

PATENT

Patent-pending: • System and Method for Controlling a Table Robot (Korean Patent Application No. 10-2025-0008102)	01/2025
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SCHOLARSHIPS

National Scholarship: • National Excellence Scholarship (Science and Engineering)	2 nd semester 2023
University Scholarship: • Academic Year 1st Semester Hanyang ERICA Academic Excellence Scholarship • Academic Year 2nd Semester SHARE Academic Excellence Scholarship I • Academic Year 2nd Semester Special Academic Excellence Scholarship • Academic Year 2nd Semester Special Academic Excellence Scholarship	2024 2023 2022 2022

SKILLS

Software Tool Skills: C/C++, Python, ROS2, Git, Docker

Certification

- Computer Specialist in Spreadsheet & Database Level-1

02/2023