Junseo Min — Researcher ☑ minjs4562@gmail.com • • • JunseoMin • in junseo-min-b638582bb

Education

Kwangwoon University

Robotics Major

Kwangwoon University

Computer Science Minor

Kwangwoon University

Robot Itelligence Micro Module

Korea Digital Training bootcamp

Autonomous Driving Technician Training Program 2023.05–2023.10

Skills & Interests

Programming: C++, Python, ROS1/2, PyTorch

Strong

Research Interest: SLAM, Navigation, Localization, DeepLearning

Professional Interests

Certifications & Awards

TOEIC: Score: 915 (May 2025)

English Proficiency Certification

Scholarship: KRW 1,118,000 (≈ USD 1,100, Summer 2025)

Awarded by Kwangwoon University

Career

Cheil Worldwide Seoul, South Korea

2022 Samsung Unpack Project - Web QA

2022.6-2022.09

- O Conducted QA for product description pages and collaborated with overseas teams.
- O Developed an interest in software development, leading to a Computer Science minor.

Ubiquitous & Al Lab

Undergraduate Research Assistant

Seoul, South Korea *2022.12–2023.12*

- Studied machine learning fundamentals and transformer attention modules through research papers and advisor discussions.
- O Developed a stock price prediction model for the KRX competition using TensorFlow and advanced deep learning techniques.

Immersion Seoul, South Korea

Autonomous Driving Developer

2023.12-2024.09

- Built outdoor HD maps and implemented SLAM pipelines for autonomous robots using 3D LiDAR and ROS2.
- O Solved technical challenges like sunlight interference and resource limits on Jetson Orin.

Machine Perception and Intelligence Lab (GIST)

Gwangju, South Korea

Research Intern 2024.06—Present

- Designed LiDAR reconstruction models using Point Transformer V3 and Perceiver architectures.
- O Conducted research on localization-related models and advanced 3D reconstruction techniques

Activities

Kwangwoon University

Baram

2020 03 2020 11

Academic Research Club 2020.03–2020.11

Kwangwoon UniversityStudent Council

Robotics Department
2020.03–2020.11

Projects

LiDAR Upsampling for Localization: Researched deep learning-based point cloud upsampling to improve localization, using PointTransformer V3 and TULIP as baselines.

HD Map Implementation: Developed a high-definition map for advertising robots using ROS and FAST-LIO2. Researched sunlight interference solutions.

Attention Robot Implementation: Implemented Stanley controller, path planning, and NDT-OMP localization in ROS2, optimizing performance with OpenMP and Eigen.

Stock Prediction Model: Built a Transformer-based stock prediction model using KOSPI data.

SmartFarm worker assistant Robot: Developed end-to-end system for mushroom harvesting robot.

Articles

Junseo Min, Inseok Jeon, Sumin Lee, Yunkyo Hong, Yaesop Lee, "Al-Based Worker Assistant Robot: Shaping the Future of Smart Farms", ICROS 2023