

Junseo Min — Researcher

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Personal Statement

Every moment adds to my value; my worth increases with every passing moment.
My deep interest lies in SLAM, navigation, and deep learning. My ultimate dream is to one day tell my children that I developed the algorithm used in a car or a robot.

Education

Kwangwoon University

Robotics

Major

Kwangwoon University

Computer Science

Minor

Contact & URLs

Email: minjs4562@gmail.com

GitHub: <https://github.com/JunseoMin>

LinkedIn: <https://www.linkedin.com/in/junseo-min-b638582bb/>

Blog (Korean): <https://velog.io/@junseomin/posts>

Portfolio: Junseo's Portfolio

Career

Cheil Worldwide

2022 Samsung Unpack Project - Web QA

Seoul, South Korea

2022.6–2024.09

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

Ubiquitous & AI 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.
- Developed a stock price prediction model for the KRX competition using TensorFlow and advanced deep learning techniques.

Immersion

Autonomous Driving Developer

Seoul, South Korea

2023.12–2024.09

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

Machine Perception and Intelligence Lab (GIST)

Research Intern

Gwangju, South Korea

2024.06–Present

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

Activities

Kwangwoon University

Academic Research Club

Baram

2020.03–2020.11

Kwangwoon University

Student Council

Robotics Department

2020.03–2020.11

Projects

- 1. HD Map Implementation:** Developed a high-definition map for advertising robots using ROS and FAST-LIO2. Researched sunlight interference solutions.
- 2. Attention Robot Implementation:** Implemented Stanley controller, path planning, and NDT-OMP localization in ROS2, optimizing performance with OpenMP and Eigen.
- 3. Stock Prediction Model:** Built a Transformer-based stock prediction model using KOSPI data.
- 4. SmartFarm worker assistant Robot:** Developed end-to-end system for mushroom harvesting robot.

Publications

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

Skills & Interests

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

Strong

Knowledge: Java, Serial Data, Computer Vision

Intermediate

Interest: SLAM, Navigation, Localization

Professional Interests