

Junseo Min — Researcher

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Education

Kwangwoon University <i>B.S. in Robotics (Major)</i> Expected graduation in Feb 2026	Seoul, South Korea 2020.03–2026.02
Kwangwoon University <i>B.S. in Computer Science (Minor)</i>	Seoul, South Korea 2020.03–2026.02
Kwangwoon University <i>Micro Module in Robot Intelligence</i>	Seoul, South Korea 2020.03–2026.02
Korea Digital Training <i>Autonomous Driving Technician Training Program, Bootcamp</i>	Seoul, South Korea 2023.05–2023.10

Skills & Interests

Programming: C++, Python, ROS1/2, PyTorch	<i>Strong</i>
Research Interest: SLAM, Navigation, Localization, DeepLearning	<i>Professional Interests</i>

Certifications & Awards

TOEIC Score 915 English proficiency certification	ETS May 2025
Scholarship KRW 1,118,000 (\approx USD 1,100) Merit-based award	Kwangwoon University Summer 2025

Career

Cheil Worldwide 2022 Samsung Unpack Project - Web QA <ul style="list-style-type: none">Conducted QA for product description pages and collaborated with overseas teams.Developed an interest in software development, leading to a Computer Science minor.	Seoul, South Korea 2022.6–2022.09
Ubiquitous & AI Lab Undergraduate Research Assistant <ul style="list-style-type: none">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.	Seoul, South Korea 2022.12–2023.12
Immersion Robot Engineer <ul style="list-style-type: none">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.	Seoul, South Korea 2023.12–2024.09
Machine Perception and Intelligence Lab (GIST) Research Intern <ul style="list-style-type: none">Designed LiDAR reconstruction models using Point Transformer V3 and Perceiver architectures.Conducted research on localization-related models and advanced 3D reconstruction techniques	Gwangju, South Korea 2024.06–Present

Activities

Kwangwoon University
Academic Research Club

Baram
2020.03–2020.11

Kwangwoon University
Student Council

Robotics Department
2020.03–2020.11

Republic of Korea Army
Military Service

Military Instructor
2020.12–2022.05

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, "AI-Based Worker Assistant Robot: Shaping the Future of Smart Farms", ICROS 2023