

Junseo Min — Researcher

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Education

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

Awards & Scholarship

Scholarship <i>KRW 1,118,000 (\approx USD 1,000)</i> Merit-based award	Kwangwoon University <i>Summer 2025</i>
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Articles

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

Career

Machine Perception and Intelligence Lab (GIST) <i>Research Intern</i> <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 <i>2024.06–Present</i>
Immersion <i>Robot Engineer (full-time)</i> <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 <i>2023.12–2024.09</i>
Ubiquitous & AI Lab <i>Undergraduate Research Assistant</i> <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 <i>2022.12–2023.12</i>
Cheil Worldwide <i>2022 Samsung Unpack Project - Web QA (intern, full-time)</i> <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 <i>2022.6–2022.09</i>

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.

Activities

Kwangwoon University <i>Academic Research Club</i>	Baram <i>2020.03–2020.11</i>
Kwangwoon University <i>Student Council</i>	Robotics Department <i>2020.03–2020.11</i>
Republic of Korea Army <i>Military Service</i>	Military Instructor <i>2020.12–2022.05</i>

Skills & Interests

Programming: C++, Python, ROS1/2, PyTorch	<i>Strong</i>
Research Interest: SLAM, Navigation, Localization, DeepLearning	<i>Professional Interests</i>
Language	
TOEIC	ETS
<i>Score 915</i>	<i>May 2025</i>
English proficiency test	