

Junseok Lee

ROBOTICS · AUTONOMOUS DRIVING

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“Let’s create a robot world for humans together.”

Personal Profile

I’m Junseok Lee, with a strong interest in autonomous driving and mobile robotics. My passion lies in robotic vision, SLAM, Path Planning, and sensor fusion. As robots increasingly become part of our daily lives, I aim to be the one who builds the “eyes” of robots — enabling them to perceive and understand the world around them.

Education

Yonsei University

B.S. in Civil & Environmental Engineering

Seoul

Mar. 2022 - Aug. 2026

Research Experience

MOTIF DRIVE

E2E Autonomous Driving Perception Team

Seoul, Republic of Korea

July. 2025 – Aug. 2025

Computational Intelligence Lab (CILAB)

Undergraduate Research Internship, Research on AI-based control systems and embedded robotics using deep learning (Advisor: Eun-Tai Kim)

Seoul, Republic of Korea

Jan. 2025 – Jun. 2025

High-Dimensional Accurate Measurement and Intelligent Sensing Lab (DAMIS)

Worked on vision-based sensing using high-resolution cameras and 3D Reconstruction (Advisor: Jae-Sang Hyun)

Seoul, Republic of Korea

Jul. 2024 – Dec. 2024

Honors & Awards

Oct 2025 **Encouragement Award**, HL FMA Autonomous Driving Competition

HL Mando, Klemove

Sep 2025 **Grand Prize**, Korea Robot Aircraft Competition

Sacheon, KRAC

Jun 2025 **Excellence Award**, QRC Korea (Quadruped Robot Challenge)

Jeonju, ICROS 2025

Nov 2024 **Grand Prize**, Yonsei-Asan UnivCT Climate Tech Start-Up

Yonsei University

Publications

Semantic Segmentation-Based Autonomous Flying Drone’s Victim Recognition Algorithm in the Complex Terrain

ICROS 2025 Conference

First Author (Lee Jun-Seok*, Jeon Yu-jin, Kim Eun-tai)

Jun. 2025, Jeonju, Korea

- Proposed a Semantic Segmentation-based algorithm to identify victims in cluttered outdoor environments using hand-designed Autonomous Drone.

Extracurricular Projects

Hyundai Motor Scholarship Program	<i>Yonsei University</i>
Member	<i>Oct. 2024 – Aug.2025</i>
<ul style="list-style-type: none">Participating in various autonomous driving and robot competitions sponsored by Hyundai Motor’s contract department (Mobility System Engineering Lab with Hyundai Motors)	
XYZ Innovation	<i>Seoul</i>
Robotics Developer (Supported by Hyundai Asan Foundation)	<i>Jun. 2024 – Jan. 2025</i>
<ul style="list-style-type: none">Climate Tech Start-up, Providing income in the form of credits to the owners through the forest carbon offset system	
Yonsei Drone	<i>Yonsei University</i>
Member	<i>Sep 2024 – Sep 2025</i>
<ul style="list-style-type: none">Autonomous driving competition using 1/5 scale vehicles with AI-based perception and control.	
Roboin	<i>Yonsei University</i>
Member	<i>Sep 2025 – Ongoing</i>
<ul style="list-style-type: none">Autonomous driving competition using 1/5 scale vehicles with AI-based perception and control.	

Skills

Programming Language	C++, Python, MATLAB
DevOps	Git, Docker, ROS2, ROS
Languages	Korean, English