

DONG-HYEONG HONG

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RESEARCH INTEREST

Autonomous Vehicle, Computer Vision

EDUCATION

Kookmin University	Seoul, Korea
B.S. Candidate, Major: Software Automobile and IT Convergence (GPA:4.0/4.5)	Mar. 2024 – Present

EXPERIENCE

FOSCAR (Future of Self-Driving CAR)	Seoul, Korea
Participant, Autonomous Driving Research and Development Club	Nov. 2024 – Present

PROJECTS

AutoRace Scale Car Autonomous Driving Competition	Oct. 2025 – Nov. 2025
Designed an ORB-BF based traffic sign classification module with threshold-based score comparison and multi-frame accumulation logic, validated on 1/10 scale vehicle.	
University Student Creative Mobility Competition	Feb. 2025 – Oct. 2025
Developed a LiDAR-based obstacle detection and avoidance system, distinguishing static and dynamic obstacles and modifying GPS waypoint-based trajectories accordingly on a 1/4 scale vehicle.	
Chuncheon AWS DeepRacer Championship	Aug. 2025 – Sep. 2025
Developed an RL-based lane-following and obstacle avoidance reward function on a 1/18 scale vehicle.	

AWARDS AND HONORS

Excellence Award (Design Division—Autonomous Driving) University Student Creative Mobility Competition	2025
• Award: Korean Auto-vehicle Safety Association President's Award.	
• Host: Ministry of Land, Infrastructure and Transport (MOLIT).	
Grand Prize (1st Place) Chuncheon AWS DeepRacer Championship	
• Award: Chuncheon Mayor's Award.	2025
• Host: Chuncheon City.	

SKILLS AND TECHNIQUES

Languages : Python, C++

Tools : ROS, MORAI