

# DONG-HYEONG HONG

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## RESEARCH INTEREST

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Autonomous Vehicle, Computer Vision

## EDUCATION

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### Kookmin University

B.S. Candidate, Major: Software | Automobile and IT Convergence (GPA:4.0/4.5)

Seoul, Korea

Mar. 2024 – Present

## EXPERIENCE

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### FOSCAR (Future of Self-Driving CAR)

Participant, Autonomous Driving Research and Development Club

Seoul, Korea

Nov. 2024 – Present

## PROJECTS

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### 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

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### 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

2025

- Award: Chuncheon Mayor's Award.
- Host: Chuncheon City.

## SKILLS AND TECHNIQUES

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Languages : Python, C++

Tools : ROS, MORAI