DONG-HYEONG HONG

hong85dong@kookmin.ac.kr | [GitHub](#) | [Blog](#)

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*

Developed a sign recognition algorithm using ORB descriptors and BF matching on a 1/10 scale vehicle.

Student Creative Mobility Competition   *Feb. 2025 – Oct. 2025*

Developed static/dynamic obstacle avoidance using GPS and LiDAR on a 1/4 scale vehicle.

Chuncheon AWS DeepRacer Championship   *Aug. 2025 – Sep. 2025*

Developed an RL-based lane-following and obstacle avoidance policy on a 1/18 scale vehicle.

AWARDS AND HONORS

Excellence Award (Design Division—Autonomous Driving) | *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

Languages : Python, C++

Tools : ROS, MORAI