SEUNGMIN YOO

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EDUCATION

Mar. 2021 ~ Present	**Konkuk University** Department of Smart Vehicle Engineering *Bachelor Student* GPA: 4.3 / 4.5	Seoul, Korea

RESEARCH INTERESTS

- Deep-Learning-based Perception
- Vision Language Model & Action
- Robotics
- Autonomous Driving
- Multimodal Architecture and Interfaces

AWARDS AND HONORS

- Dean's list, Konkuk University, Korea (Feb. 2022)
- International e-Mobility Top Award (2nd Place), International e-mobility expo, Korea (Jul. 2025)
- Outstanding Project for Self-Design Semester System Encouragement Award, Konkuk University, Korea (Jul. 2025)
- Capstone Design Competition Siver Award(2nd Place), Konkuk University, Korea (Sep. 2025)
- Award of Distinction(4th Place), HL Mando, Korea Road Traffic Authority (KoROAD), Korea (Sep. 2025)
- Self-made Autonomous driving implementation division/Award of Distinction(5th Place), Korea Agency for Infrastructure Technology Advancement(KAIA), Korea (Oct. 2025)
- Self-made Autonomous vehicle creative technology division/Excellence Award, Korean Auto-vehicle Safety Association(KASA), Korea (Oct. 2025)
- 2025 Hanyang Uni. Consortium Capstone Design Competition, Top Award (1st Place), Hayang University, Korea (Nov. 2025)
- 2025 E2FESTA: Capstone Design Fair, Ministry of Minister of Trade, Industry and Energy, Korea (Nov. 2025)

PROJECTS

- The 4th International university student EV Autonomous driving Competition, International e-mobility expo, Korea / Dynamic obstacle detection (Dec. 2024 ~ Jul. 2025)
- Autonomous System Platform Final Project, Konkuk University Smart Vehicle Engineering, Korea / UGV's Obstacle Course Driving, Mission Supervisor (Jun. 2025 ~ Jun. 2025)
- 2025 HL FMA Self-Driving Competition aMAP Innovator Championship[1/5], HL Mando, KoROAD, Korea / GPS, Mission Manager (Jul. 2025 ~ Sep. 2025)
- College student creative mobility competition, Ministry of Land, infrastructure and Transport, Korea / Perception + Localization part (Nov. 2024 ~ Nov. 2025)
- Voice-based-wheelchair for Person with a disability, Konkuk University, Korea / SLAM(2D LIDAR), Localization (Apr. 2025 ~ Nov. 2025)

SKILLS AND TECHNIQUES

- Linux
  - ROS1
  - ROS2
- Software
  - Python
  - OpenCV
  - C++
- Sensor Experience
  - Camera & 3D LiDAR
  - 2D LiDAR & IMU (Localization)
  - GPS & IMU