Daegeun song

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EDUCATION

University of Ulsan, South Korea **2015.03 ~**
- Dapartment of Mechanical Engineering **2016.02**
- GPA: 3.94 / 4.5

Kyungpook National University, South Korea **2020.03 ~**
- Dapartment of Mechanical Engineering **2021.02**
- GPA: 4.35 / 4.5

Work Experience

Hyundai Motors Company **2022.05.04 ~ 2023.02.01**
Namyang Research Institute
- Airbag Controller design engineer

Duties
- Participation in the BJ (vehicle model number) vehicle design process from design to mass production
- Preparation of system requirements specifications for PSB advance research

Accomplishment
- Writing a design plan to meet vehicle functions and the Euro NCAP assessment protocol for the ACU (airbag controller unit)
- Maintenance communication with relevant teams to ensure Euro NCAP satisfaction
- As part of prior research on active safety systems, we prepared PSB (pre-safe seatbelt) system requirements specifications to reduce injuries in various driving environments. Specifically, I proposed seat belt characteristics for each phase before or after the collision.

PROJECT

Mobile enforcement system for warning of illegal parking and jaywalking **2021**
Exhibited at the Daegu International Robot Industry Exhibition

Proposed a mobile system for school zone enforcement using depth camera-based recognition.
The technologies used are:
ROS1, YOLOV3, openCV, template matching, and dinamixel motor SDK

Role
software system developer
- I used image processing techniques such as template matching and Gaussian filtering to store license plates.
- In this process, I learned that classic image processing technology that does not apply AI has limitations in that it is not robust to deformation or environmental changes, and this motivated me to study robust cognitive technologies.

AWARDS & SCHOLARSHIPS

Academic Excellence Scholarship **2018, 2020,2021**

EXTRACURRICULARS

Cognitive project using opencv in an embedded environment **2021.07 ~ 2021.08**
Daegu AI HUB

- Learned the edge detection process based on the tool

SW Academy **2022.02.07 ~ 2022.03.04**
Hyundai Mobis

- A project to create a parking management system on the QEMU emulator

42 seoul **2023.02.06~**
Innovation academy

- Understanding of algorithms, data structures, and operating systems

Languages

TOEIC	815	**2024.01.13**
TOEIC speaking	LV5(expired)	**2021.12.05**