Hanjun Kim

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EDUCATION

Seoul National University, Republic of Korea   03/2024 –
- M.S. student in Department of Future Automotive Mobility

Technical University of Munich, Germany   03/2023 – 08/2023
- Exchange student in Department of Mechanical Engineering

Seoul National University, Republic of Korea   03/2018 – 02/2024
- Bachelor in Department of Mechanical Engineering

RESEARCH EXPERIENCE

Robust Perception and Mobile Robotics Lab   03/2024 – Present
- Heterogeneous radar dataset in complex urban environment for multi-session radar SLAM
- Focusing on Autonomous driving, SLAM, sensor fusion, and deep learning

Artificial Intelligence Semiconductor Engineering Lab   09/2022 – 02/2023
- Autonomous driving project internship
- Analyzed and reviewed research and papers about Stereo vision, Semi-Global Matching and so on.
- 3D mapping using zed2i stereo camera using ROS1

Innovative Design and Integrated Manufacturing Lab   09/2022 – 12/2023
- Developing collaborative robot system based on voice command.
- Construction of a system to control Doosan's robot arm using voice commands API and ROS1.

KSPE 2023 Autumn Conference Poster Presentation   11/2023
- Developing a vision-based collaborative robot automation and voice control system using autonomous mobile robot arms

Related Courses
- Global Engineering Internship
- Theory and Lab of IoT, AI, Big Data
- Automotive engineering
- Introduction to Deeplearning(Technical University of Munich)
- Autonomous Driving(Technical University of Munich)
- Mechanical System Modeling and Control

EXTERNAL ACTIVITIES

Sequor Robotics, Robot software and hardware solutions startup   April 2023 – August 2023
- Industry-academic cooperation project.
- Pedestrian trajectory prediction algorithm development.

SUM, Self-driving startup Internship Field practice   January 2023 – February 2023
- Practice on positioning process using Kalman filter based on sensor data.
- Distant object tracking algorithm using Lidar, Radar and Vision.

- CARLA simulation open scenario production.
- PID controller design practice using Simulink to implement lateral and longitudinal control.

Hyundai America Technical Center, Inc. Headquaters Global Internship   June 2022 – July 2022
- Benchmarking, development projects in several departments including AD department.
- Lab tour and experience various departments.

Visual Camp, eye tracking technology startup Internship   May 2022 – June 2022
- App planner/developer.
- Business proposal to enter the global market.

Research Assistant of Hyundai, SNU's Industrial Cooperation Group   March 2022 – June 2022
- Produce a report that summarizes the latest technology trends.
- Class assistant work and class-related administrative work.

Sigma Intelligence, a robot club in Electrical Engineering   March 2019 – December 2020
- Made health trainer robot using Gyro sensor, ultrasonic sensor, and Python.

Other careers

- 2024.03` Excellent Research Award, Dept. of System Semiconductor Engineering for AI, SNU

- 2023.12` Outstanding BS Thesis Award, Dept. of Mechanical Engineering for AI, SNU

- 2023.11` Kaggle ML4ME Object detection challenge 1st place

- 2022.12` Seoul National University x Hyundai Doosan Infracore Mechatronics Contest Grand Prize

- 2020.02` Microsoft Office Specialist Master

- 2019.05` Seoul National University GECE The Action Leadership Award

- 2017.12` The 7th U.S. Embassy Seoul UCC Contest Semi-finalist

- SNU's startup club SNUSV's 30th generation

- Artificial Intelligence Camp Assistant Instructor(likelion x newsac)

- MiraeAsset Park Hyunjoo Foundation 28th Scholarship Student