

Hyunseup Jo



Contact

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<https://github.com/soup1997>

Research Experience

- Research Student at Tech University of Korea, Automotive Embedded System LAB, South Korea *Jul.2021-Present*

Research Interests

- Automotive Embedded Systems
- Path Planning, Vehicle Control
- Sensor Fusion

Education

Tech University of Korea *Siheung, Gyeonggi*
B.S in Department of Electronics Engineering *Mar.2017-Feb.2023*
Minor in Future Automotive Engineering
• **Total GPA:** 4.08 / 4.5, **Major GPA:** 4.14 / 4.5

Projects

2022 Autonomous Driving Contest, Kookmin Univ *AES LAB*
Dec.2021-Jun.2022

- Development of calculating curvature angle of vehicle, lateral control system using stanley method
- Development of LiDAR Clustering using DBSCAN for obstacle recognition, obstacle avoidance system
- Development of curved lane recognition using sliding window method

2022 Capstone Design *Tech Univ of Korea*
Autonomous Driving Fire Suppression Robot *Dec.2021-Jun.2022*

- Development of indoor autonomous driving system using SLAM, AMCL
- Development of PI control by obtaining the error of the target value with the motor encoder
- Development of Fire Detection with using YOLO and estimating the distance by curve fitting with mono camera

Skills

Language: TOEIC (800)
Programming Languages: Python, C, Matlab
Microcontrollers: NXP, Atmel, STmicro
Operating Systems: Linux, ROS
Others: Git

Publication (Domestic)

- Hyunseup Jo, Sukhyun Seo, "Development of Autonomous Driving Robot for Fire Suppression (화재 진압을 위한 자율주행 로봇개발)", 한국자동차공학회 추계학술대회, 2022

Awards And Honors

- Creative Project-Community of Practice (Gold prize), Tech University of Korea, South Korea *Sep.2022*
- Academic Excellent Scholarship, Tech University of Korea, South Korea *Dec.2021*
- President's Cup Robot Programming Contest (Encouragement prize), Tech University of Korea, South Korea *Nov.2021*
- Academic Excellent Scholarship, Tech University of Korea, South Korea *Jun.2021*
- Academic Excellent Scholarship, Tech University of Korea, South Korea *Dec.2020*
- Academic Excellent Scholarship, Tech University of Korea, South Korea *Jun.2018*
- Academic Excellent Scholarship, Tech University of Korea, South Korea *Dec.2017*

Other Experience

1. Hyundai NGV Campus SOME/IP Lecture Research Assistant

- Experienced in making lecture materials and examples about SOME/IP Protocol and Service Discovery

2. University Teaching Assistant

- Microprocessor 1 *Mar.2022-Jun.2022*
- Smart Vehicle *Sep.2022-Dec.2022*

3. Club: Ssibueong (Programming Academic Group)

- Algorithm Study Group *Aug.2021-Sep.2021*
 - <https://soup1997.tistory.com/category/Algorithm?page=2>
 - Learning About Data Structures and Algorithms
- Machine Learning Study Group *Jan.2021-Mar.2021*
 - <https://soup1997.tistory.com/category/Machine%20Learning>
 - Watching open course lectures and solve assignments
 - Learning about data pre-processing, regression, classification