

Jaewon Lee

ROBOTICS · MULTI-ROBOT · SLAN

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"Passion is the genesis of genius."

Summary.

This is Jaewon Lee, who wants to be a Multi-Robot engineer and Cooperative Autonomous Driving engineer. I am interested in Robotics, SLAM, Multi-Robot System. I think Robotics can help the development of the world a lot. I want to study a lot and approach the world.

Research Interests

Multi-Robot Navigation, Collision Avoidance, SLAM, Pose Estimation

SLAM Visual SLAM, LiDAR SLAM

Education

KwangWoon University

Seoul, S.Korea

B.S. IN SCHOOL OF ROBOTICS

Mar. 2020 - Feb. 2024(Expected)

- Current GPA: 4.11/4.50, Current Major GPA: 4.28/4.50
- Club: BARAM Robotics (Robotics Academic Group) [2022 Vice President], Mar.2020-Present

Work Experience_

Robotics A.I. LAB. @KwangWoon Univ

Seoul, S.Kored

Undergraduate LAB Intern (Advisor: PROF. Junghyun Oh)

Jan. 2022 - Jun. 2022

- I studied visual SLAM and visual odometry
- I studied Multi-Robot system and implemented Multi-Robot exploration

ROBOMATION Seoul, S.Ko

R&D INTERN Jun. 2022 - Aug. 2022

- I developed an automation system for soccer games using multi-robot.
- I developed multi-robot coordination and pose system using Aruco Marker.

Honors & Awards

AWARDS

2022-1 **Dean's list**, for Academic Excellence

Kwangwoon Univ.

Honors

2022-1 Full Tuition Scholarship, for the first place in last semester

Kwangwoon Univ.

Skills

Programming C++/C, Python, Matlab

DevOps ROS, Git

Framework Pytorch, Tensorflow, Keras, Unity

Extracurricular Activity _____

Technical Blog - lee-jaewon.github.io

Personal Tech Blog Jul. 2021 - Present

Writer

• I have been writing posts about the paper review, development, the study of Interests.

- To study through writing and sharing.
- The blog is available at [here].

JUNE 28, 2023 JAEWON LEE · CURRICULUM VITAE

Technical Team Blog - ropiens.tistory.com

o-Writer Jul. 2022 - Present

• I have been writing posts about the paper review, development, the study of Interests.

- · To study through writing and sharing.
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Autonomous Multi Robot Parking System

Kwangwoon Uni\

CAPSTONE DESIGN

• Implement a multi-robot system and implement various technologies necessary for mobile robots.

• The source code for the project is available at [my GitHub repository].

2022 Open Source Contribution Academy

Ministry of Science and ICT, NIPA

MENTEE

Jul. 2022 - Oct. 2022

• I contributed to translating PyTorch Hub English documents into Korean at the PyTorch Korean User's Group.

Multi Robot Collision Avoidance with Velocity Obstacle

BARAM Robotic

PERSONAL PROJECT

Sep.2022 - Nov.2022

• I implemented collision avoidance with Velocity Obstacle using multi-robot.

The source code for the project is available at [my GitHub repository].

Autonomous Driving Simulation with Reinforcement Learning

BARAM Robotic

PERSONAL PROJECT

Sep.2021 - Nov.2021

• I implemented an Autonomous-driving system through DQN algorithm for the high-way situation.

• I implemented a simulator with Unity. And I managed the reward using Laser Sensor.

• The source code for the project is available at [my GitHub repository].

Frontier Based Multi-Robot Exploration

BARAM Robotic

PERSONAL PROJECT

Mar.2022 - Jun.2022

• I implemented ROS-based multi-robot frontier exploration.

• I implemented a multi-robot SLAM system using open sources.

• The source code for the project is available at [my GitHub repository].

House Interior Classifier and Automatic Recommendation

2022 Deen Learning Lecture

DEEP-LEARNING PROJECT

Mar.2022 - Jun.2022

- I implemented House Interior Classifier using Inception-Resnet-V2 in Keras.
- · I implemented a system that can automatically search on the actual shopping site with the classified result.
- The source code for the project is available at [my GitHub repository].

Educational Activities

AI Genius Academy Mentoring

Oraanized by Micro School, TresC3

TEACHING ASSISTANT

Nov.2021

- I taught Arduino and Raspberry Pi and assisted students' Al projects.
- I taught how to use Google Teachable Machine and what is AI or Deep Learning.

Samsung Electronics App Development Mentoring

Organized by Micro School, TresC

TEACHING ASSISTANT

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Jan.2022

• I taught MIT App Inventor and assisted students' projects.

2022 FUTURE EDUFESTA: LINK

Association of Teachers For

Computing

Oct.2022

• I taught simple robot software to children.