# JaeWon **Lee**

Robotics · Multi-Robot · SLAM

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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 Multi-Robot and Robotics can help the development of the world a lot. I want to study a lot and approach the world.

## Research Interests

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|---|---|
| **Multi-Robot** | SLAM, Path Planning, Collision Avoidance, Exploration, Map Fusion |
| **SLAM** | Visual SLAM, Visual Odometry, Optimization |

## Education

**KwangWoon University**                                                                 *Seoul, S.Korea*

B.S. IN SCHOOL OF ROBOTICS                                                   *Mar. 2020 - Feb. 2024(Expected)*

- Current GPA : 3.98/4.50, Current Major GPA : 4.16/4.50
- Club : BARAM Robotics (Robotics Academic Group) - [2022 Vice President], Mar.2020-Present

## Work Experience

**Robotics A.I. LAB. @KwangWoon Univ**                                                    *Seoul, S.Korea*

UNDERGRADUATE LAB INTERN (ADVISOR : PROF. JUNGHYUN OH)                                *Jan. 2022 - Present*

- Research on Visual SLAM and Computer Vision
- Studying Visual SLAM and implementing Multi-Robot SLAM, Path Planning and Exploration

## Skills

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|---|---|
| **Programming** | C++/C, Python |
| **DevOps** | ROS, Git |
| **Framework** | Pytorch, Unity |
| **Languages** | Korean, English |

## Extracurricular Activity

**Technical Blog - lee-jaewon.github.io**                                                    *Github blog*

WRITER                                                                            *Jul. 2021 - Present*

- Writing posts about paper review, development, study of Interests.
- Studying through writing and sharing.

**Autonomous Driving Simulation with Reinforcement Learning**                              *BARAM Robotics*

PERSONAL TOY PROJECT                                                              *Sep.2021 - Nov.2021*

- Autonomous-driving simulation through DQN Reinforcement algorithm in self-made simulator with unity.
- Reward management using DQN, CNN, and Laser Sensor.

**Multi-Robot SLAM and Path Planning**                                                     *BARAM Robotics*

PERSONAL TOY PROJECT                                                              *Mar.2022 - Present*

- Implementation of ROS-based Multi-Robot SLAM.
- Studying Path-Planning, Exploration and Map Merging Algorithm.

## Educational Activities

**AI Genius Academy Mentoring**                                    *Organized by Micro School*

Teaching Assistant                                                              *Nov.2021*

- Project Assistant with Arduino and Raspberry Pi
- Support students to experience AI and proceed with the project through a Teachable Machine.

**Samsung Electronics App Development Mentoring**                  *Organized by Micro School*

Teaching Assistant                                                              *Jan.2022*

- MIT App Inventor training and Project Assistant.