

# Jiyoon Park

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## EDUCATION

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### Carnegie Mellon University

Pittsburgh, PA

- Master of Science in Robotic Systems Development
- Awarded Kwanjeong Educational Foundation Scholarship

May 2024

### Ewha Womans University

Seoul, Korea

- Bachelor of Science in Computer Science and Engineering and Computational Science
- Honors: **Summa Cum Laude** - GPA 4.16/4.3 Rank: 1/46

Mar. 2022

## RESEARCH EXPERIENCE

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### Ewha Computer Graphics Lab

Seoul, Korea

#### Undergraduate Research Intern

Feb 2021 - Mar 2022

- Developed a large-scale robotic drawing system that draws TSP pen art on large arbitrary surfaces
- Implemented under ROS in C++ and Python using KUKA LBR IIWA 7 R800 as a manipulator and Clearpath Robotics Ridgeback as a mobile platform
- My research focused on path planning and manipulation of the holonomic mobile base, Ridgeback
- Won the **Best Undergraduate Paper Award** by The Korean Graphics Society in 2021 [[website](#)]

## ACADEMIC PROJECTS

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### Camera Mobile Manipulator

Ewha Womans University | Mar 2022

- Developed a camera manipulator system using a mobile manipulator for accurate manipulation pose reproduction
- Focused on system engineering and localization

### Autonomous Driving Cart

Ewha Womans University | Jul 2021

- Developed autonomous driving cart system using ROS for computational offloading
- Focused on TurtleBot manipulation, ROS communication, refining DeepSORT, and algorithm optimization
- Ewha Capstone Project Contest 2nd place, Ewha Startup Contest 1st place. Nominated as Ewha Womans University representative team and won Popularity Award at the national Software Human Resource Festival

### Restaurant Review Analysis Website

Ewha Womans University | Aug 2021

- Developed an interactive website that uses big data to recommend users with personalized optimal choices based on past restaurant reviews

### Course Information You Need Website

Ewha Womans University | Aug 2021

- Designed and implemented a user interactive interface for a course review website using Chart.js, Bootstrap, js etc as the prime frontend developer

## PUBLICATIONS

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1. Daeun Song, Eunjung Lim, [Jiyoon Park](#), Minjung Jung, Young J. Kim, "TSP-Bot: Robotic TSP Pen Art using High-DoF Manipulators", under review [🔗](#)
2. Daeun Song, [Jiyoon Park](#), Young J. Kim, "SSK: Robotic Pen-Art System for Large, Non-Planar Canvas", IEEE T-RO, under review
3. Eunjung Lim, [Jiyoon Park](#), Daeun Song, Young J. Kim, "TSP Pen Art using a Mobile Collaborative Robot (extended abstract)", Korea Computer Graphics Society Annual Conference (KCGS), Jul 2021 [🔗](#)
4. Jisu Han, [Jiyoon Park](#), Chae-won Kim, Sang-soo Park, Hieonn Kim, "Deep Learning Based Autonomous - Driving Cart Using ROS for Computation Offloading", Korea Information Processing Society Fall Conference (KIPS), Nov 2020

## TEACHING EXPERIENCE

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### Peer Instructor (Tutor)

Ewha Womans University | Dec 2021

- Selected as a tutor for Numerical Methods (Computer Science math elective course)

### One-Stop Tutor

Ewha Womans University | Jul 2021

- Selected to organize an advanced algorithm course. In charge of assignment code reviews

## TECHNICAL SKILLS

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Python, Java, C/C++, Matlab, HTML/CSS/JS, ROS, Gazebo, rviz, Linux, MATLAB