






Seungheon Lee

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EDUCATION

	University of Seoul <i>Department of Mechanical Information Engineering</i> Bachelor Student, GPA: 4.15 / 4.5 (Major GPA: 4.35 / 4.5)	Seoul, Republic of Korea Mar 2019 – Feb 2025
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EXPERIENCE

	Samsung Research <i>Software Engineer Intern</i> <ul style="list-style-type: none">Developed monitoring system for LLM API servers: Implemented Kubernetes cluster and monitoring infrastructure using Prometheus and GrafanaSuccessfully deployed the system from development to staging environment, preparing for the upcoming service release	Seoul, Republic of Korea Jul 2024 – Aug 2024
	Robotics Lab, University of Seoul <i>Undergraduate Researcher</i> <ul style="list-style-type: none">Gained Research Experience and Participated in Various Competitions	Seoul, Republic of Korea Mar 2022 – May 2024


RESEARCH INTERESTS

- Robotics: Autonomous Driving, Manipulation
- AI Applications: Reinforcement Learning, Generative AI

AWARDS AND SCHOLARSHIPS

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| • Winner of Simulation Drone Contest, Korean Robotics Society | May 2022 |
| • Best Presentation Award, Engineering Research Internship, University of Seoul Engineering Education Innovation Center | Feb 2023 |
| • Grand Prize, 1st Autonomous Robot Race Competition, Autonomous Robot Race Competition Organizing Committee | Apr 2023 |
| • 1st place, RoboCup Autonomous Robot Manipulation Challenge, MathWorks, United States | Jul 2023 |
| • Academic Excellence Award, President of the University of Seoul | Nov 2023 |
| • OK Scholarship for College/Graduate Students, OK Scholarship Foundation | Sep 2023 – Present |
| • Blue Lighthouse KB Dream Wave 2030 Promising Field Scholarship, Korea Scholarship Foundation | Nov 2023 - Jun 2024 |

CONFERENCES

- | | |
|---|----------|
|  <u>Seungheon Lee</u> , Euihoon Sagong, Myeonjung Hwang, "Visualization of Singularity Distribution in Robot Manipulator using Monte Carlo Method," ICROS 2023, Samcheok, Korea – Poster | Jun 2023 |
|---|----------|

- Seunghoon Lee, Taegyeom Lee, Ui Hun Sagong, Jung Hyun Choi, Won Bo Jang, Junyoung Lee, Murim Kim, Myeonjung Hwang, "Detection of Handle Grasping Pose Using a Deep Learning Based Grasping Pose Estimation Algorithm," KRoC 2024, Pyeongchang, Korea – Poster *Feb 2024*
- Minhoo Park, Seunghoon Lee, Yonggun Lee, "Techniques for Creating Custom Article Illustrations with Stable Diffusion," KIBME 2024, Jeju, Korea – Oral *Jun 2024*

SKILLS

- Programming Languages - Python, C/C++
- Software/Tools - Linux, ROS, MATLAB, OpenCV, PyTorch
- Hardware/Sensor - LiDAR(2D, 3D), GPS, RGB-D Camera

ACTIVITIES

Military Service

- Sergeant, Republic of Korea Army *Mar 2020 - Oct 2021*

Projects

- Zeus Industrial Robot ZERO Mission Challenge: focusing on tasks such as 6-axis articulated robot operation, robot vision, and point cloud processing, RoboWorld *Aug 2023 - Oct 2023*
- RL-Enhanced-PurePursuit: Enhanced Pure Pursuit path-following algorithm using reinforcement learning with MATLAB's Reinforcement Learning Toolbox *Sep 2023 - Dec 2023*
- BartendAiRtist: Developed an AI-powered Android app for personalized cocktail recommendations and automated preparation using Chat GPT API *Mar 2023 - Dec 2023*
- Creating Custom Article Illustrations with Stable Diffusion: project with KBS AI transformation team *Apr 2024 - Jun 2024*

Links

