Seungho Lee, Undergraduate.

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Education

03/2018 – Present	🔖 **Seoul National University, Seoul**
	Double major in *Mechanical Engineering & Artificial Intelligence.*
	Current GPA 4.00/4.30
03/2015 – 02/2018	🔖 **Daegu Science High School, Daegu**
	GPA 4.05/4.30

Skills

Coursework	🔖 Completed Courses:
	– Math (Linear Algebra, Differential Equations, Probability)
	– Mechanical Engineering (Robotics, Dynamics, Mechatronics)
	– Computer Science (Data Structures, Algorithms, Machine Learning)
	In Progress:
	– **Artificial Intelligence**, Fundamentals of Deep Learning
Coding	🔖 Python, Java, C/C++, Matlab, ROS, LaTeX

Experience

08/2023	🔖 **Ajin USA**
	Production Team Intern.
	Topic - Lot tracking system improvement in future factory.
	- Participated in logistics tracking project, exploring strategies and future plans for improving the lot tracking system.
07/2022 – 08/2022	🔖 **SNU DYROS Lab**
	Humanoid Team Intern.
	Topic - Franka-Panda Robot Compliant Control.
	- Participated in robot arm research, simulating the movement of the 7DOF robot arms' end effector to reach the target position.
	- Planned the path of the end effector in SE(3) space and implemented joint control to follow this path. Also incorporated force feedback along the trajectory to smoothly navigate around obstacles.
	- C++, ROS in Linux.

Projects

05/2023 – Present	🔖 **Improving remote driving performance.**
	- Developed a real-time system to draw driving guide lines on the screen for improving remote driving performance.
	- Vehicle dynamics & camera intrinsic are used.
	- Python in Linux.

Projects (continued)

03/2023 – 10/2023	**Developing self-driving car.**
	- Developed three aspects of autonomous driving: perception, decision-making, and control to participate in the competition.
	- Mainly worked on the path planning part involving RRT*, clothoid paths. Also contributed to the control part, dealing with Stanley control, and the perception part, using the YOLO model.
	- C++, Python, ROS in Linux.
05/2023 – 06/2023	**Sorting hand-written letter image.**
	- Developed a neural network for sorting hand-written letter images, utilizing a shared CNN + RNN approach.
	- Python.
09/2022 – 12/2022	**Developing intrusion alarm system.**
	Developed an real-time intrusion alarm system integrating electrical circuit system with the YOLO model.
	- Python.

Honors & Awards

10/2023	**College Student Creative Mobility Contest,** Silver Prize awarded by Korea Transportation Safety Authority.
12/2022	**Mechatronics Competition,** Silver Prize awarded by Doosan Infracore.
02/2017	**Korean Young Physicists' Tournament,** Silver Prize awarded by Korean Society for the Gifted & Korean Physical Society.