Minhyuk, **Jang**

Senior Student at Seoul National University

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"Life begins at the end of your comfort zone"

Interests

Control Theory Robust Control, Optimal Control, Nonlinear Control and its Applications for Real-World Problems

Education

Seoul National University *Seoul, South Korea*

B.S. in Mechanical Engineering, Interdisciplinary Major in Artificial Intelligence **(GPA: 4.18/4.3)** *Mar. 2019 - PRESENT**

- *Include 18 months of military service

Experience

NEARTHLAB *Seoul, South Korea*

Aerospace Engineering Intern *Jan. 2024 - Feb. 2024*

- Quadrotor Mission Control using Companion computer

Control and Optimization Research (CORE) Lab, SNU *Seoul, South Korea*

Undergraduate Researcher | Advisor: Prof. Insoon Yang *Mar. 2023 - PRESENT*

- Conducted research on extending theory of Wasserstein Distributionally Robust Control(WDRC) Problem using Distributionally Robust Kalman Filtering(DRKF) in partially observable linear stochastic systems
- Implemented DRKF into the system and evaluated its performanace improvement compared to the original WDRC and Linear Quadratic Gaussian (LQG) control methods

Senior KATUSA (Korean Augmentation to the United States Army) *Pyeongtaek, South Korea*

Sergeant, 8th Army, Camp Humphreys *Sep. 2021 - Mar. 2023*

- Led and managed a 10-solider squad, ensuring their training, well-being, and mission preparedness
- Operated within a U.S. Army office, collaborating extensively with American colleagues on a daily basis
- Applied language proficiency to deliver crucial translation and interpretation support during Combined Exercises, promoting cross-cultural comprehension and enhancing mission achievements

Skills

Programming	C/C++, Python, MATLAB, JAVA
Libraries/Softwares	SolidWorks, MuJoCo, PyTorch, LaTeX
Languages	Korean, English (TOEFL 106 : R:30 / L:30 / S:23 / W:23)

Honors & Awards

2021∼ **Kwanjeong Scholarship**, Recipient of a full tuition scholarship along with a stipend for two years *Seoul, South Korea*

2022 **ARCOM(Army Commendation Medal)**, United States Department of the Army *Camp Humphreys*

Core Courses

Control	Mechanical System Modeling and Control(A0), Nonlinear System Theory(Graduate, A+), Advanced Control Techniques(A+)
CS	Data Structures(A+), Algorithms(A+), Introduction to Deep Learning(A-)
Robotics	Mechatronics(A+), Mechanical Product Design(A+), Introduction to Robotics(A0)
Others	Fundamentals of Control Engineering(Online), Convex Optimization(Online)

Extracurricular Activity

Bulnabi *Seoul, South Korea*

Drone Club, SNU *Sep. 2023 - PRESENT*

- Gain knowledge in quadrotor control, especially targeted on preparing Korea Robot Aircraft Competition
- Developed and implemented control algorithms for the novel VTOL design