Minhyuk, **Jang**

Senior Student in Seoul National University

(+82) 10-4635-4629 | jason4012@snu.ac.kr | jangminhyuk.github.io/ | minhyuk-jang

"Life begins at the end of your comfort zone"

Interests

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

Education

Seoul National University *Seoul, South Korea*

B.S. in Mechanical Engieering, Interdisciplinary Major in Artificial Intelligence **(GPA: 4.19/4.3)** *Mar. 2019 - PRESENT**

- *Include 18 months of military service

Experience

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

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

Skills

Programming C/C++(+6 yrs), Python, JAVA, MATLAB, LaTeX
Simulation MuJoCo
Languages Korean, English(TOEFL 106)

Honors & Awards

2021∼ **Kwanjeong Scholarship**, 11,000,000₩/year 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
CS Data Structures(A+), Algorithms(A+), Introduction to Deep Learning(Current)
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*

- Gained expertise in quadrotor control, especially targeted on robust control