CHANJOON PARK

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Personal Profile

I'm Chanjoon Park, a Master's student in the Robotics Program at KAIST. My research lies at the intersection of learning-based planning and trajectory optimization for agile quadrotors.

I completed my B.S. in Mechanical Engineering at Yonsei University, where I developed a strong foundation in robotics, optimization, and control.

My long-term goal is to develop theoretically grounded yet practical algorithms that unify planning and control for high-performance aerial robots operating in unknown environments.

Education

Korea Advanced Institute of Science and Technology
Robotics Program

Daejeon, Republic of Korea
Sep. 2024 - Present

Yonsei University
Mechanical Engineering

Seoul, Republic of Korea
March 2018 - August 2024

Pyeong-taek High School
High School

Pyeong-taek, Republic of Korea
March 2014 - January 2018

Research Experience

Urban Robotics Lab (URL)
2023 Summer-Fall Internship Program

Daejeon, Republic of Korea
August 2023 - August 2024

Korea Institute of Science and Technology (KIST) Center for Healthcare Robotics
Medical Navigation Lab Undergrad. Intern

Seoul, Republic of Korea
December 2022 - February 2023

18th Korea Robotics Conference (KRoC 2023)
Special Oral Session Co-first author

Pyeongchang, Republic of Korea
Feb 2023

- Oral paper: *Obstacle Layer-based Avoidance for Self-Driving Racing Cars*

Machine Learning and Control Systems Lab (MLCS)
AI Racing Team Undergraduated Member

Seoul, Republic of Korea
December 2021 - August 2023

Honors & Awards

Oct 2023	**Aerospace Association President's Award (2nd place)**, 2023 Korea Robot Aircraft Competition	*Korea Aerospace Industries Association*
Sep 2023	**KIPO(Korean Intellectual Property Office) Commissioner Award**, Student Startup Competition GROW-UP	*Yonsei University*
Sep 2023	**Grand Prize**, College of Engineering Course Achievement Idea Competition	*College of Engineering, Yonsei University*
Aug 2023	**Grand Prize**, Makerspace Competition	*Yonsei-Korea University*
Nov 2022	**Grand Prize**, 2022 Autonomous Driving Robot Race	*Korea Robotics Society (KRoC)*
Aug 2021	**Academic Excellence Award**, Honors	*Yonsei University*

Extracurricular Activities

YonseiDrone   *Seoul, Republic of Korea*

Founding Member, Club Management   *May 2021 - August 2024*

- Founded and led Yonsei University's only drone club, participating in national competitions, organizing SLAM study sessions, and developing custom drones.

Yonsei Computer Club (YCC)   *Seoul, Republic of Korea*

Member   *March 2022 - February 2024*

- Engaged in full-stack development, participated in a hackathon, and explored various technologies including app development and robotics programming.

ROBOIN   *Seoul, Republic of Korea*

Member   *March 2021 - December 2022*

- Worked on robotics projects like quadrupeds and motor control, while actively learning from senior members and industry-related events.

Skills

Programming Language	**C/C++, Python**, Rust, C#, Dart.
Framework&Library	**ROS**, ROS2, PyTorch, React, Django, Flutter
Miscellaneous	**Linux, Git**, Docker, LaTeX, MATLAB, Unity, 3D CAD(PTC Creo, Onshape. etc.), Ansys.
Certifications	**Pilot of an Ultra Light Vehicle(Class 3)**

References available upon request.