

Seongsu Park

Korea Advanced Institute of Science and Technology (KAIST)
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EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

PH.D. CANDIDATE | Electrical Engineering

- Advisor: Prof. Min Jun Kim

Daejeon, Korea
Sep 2024 – present

Korea Advanced Institute of Science and Technology (KAIST)

M.S. | Robotics Program

- Thesis: *Design of a Fully Actuated Drone with Non-Isotropic Wrench Shape*
- Advisor: Prof. Min Jun Kim

Daejeon, Korea
Sep 2022 – Aug 2024

Hanyang University

B.S. | Mechanical Engineering

- Thesis 1: *Hexapedal Walking Robot With Klann Mechanism Using 1 Degree of Freedom*
- Thesis 2: *A Two-Wheeled Balancing And Driving Robot With Sterilization*
- Advisor: Prof. TaeWon Seo

Seoul, Korea
Mar 2016 – Feb 2022

RESEARCH INTERESTS

Robotics

- Aerial manipulation
- Physical interaction control
- Optimal design and control
- Nonlinear control
- Cooperative manipulation

RESEARCH EXPERIENCE

Intelligent Robotic Systems Lab (KAIST)

Research Intern

- Project: *Design and control of a fully actuated drone*
- Advisor: Prof. Min Jun Kim

Daejeon, Korea
Apr 2022 – Aug 2022

Center for Healthcare Robotics, Korea Institute of Science and Technology (KIST)

UST Research Internship

- Project: *Design of a surgical tool fixation mechanism for the end-effector of a manipulator for spinal surgery*
- Advisor: Ph.D. Chunwoo Kim

Seoul, Korea
Jul 2021 – Aug 2021

PUBLICATIONS

- [2] **S Park** and M.J Kim, "Design of a Fully Actuated Drone with Non-Isotropic Wrench Shape", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Abu Dhabi, UAE, October 2024.
- [1] J Jeong, **S Park**, S Lee, D Youn and M.J Kim "Designing an End-to-End UAV System for Insulator Inspection Under Transmission Tower Environments", International Conference on Electronics, Information, and Communication (ICEIC), Taipei, Taiwan, January 2024.

HONORS AND AWARDS

Department Academic Excellence Award
Award in Undergraduate Peer Tutoring Competition
Award in Undergraduate Research Competition
Department Academic Excellence Scholarship

Feb 2022
Dec 2021
Dec 2020
Mar 2017

TECHNICAL SKILLS

Programming: C/C++ | Python | MATLAB/Simulink

Design: SolidWorks | CATIA | AutoCAD | Ansys Fluent

Robotics: ROS | Simulation(PyBullet, MuJoCo)

EXTRACURRICULAR ACTIVITIES

Military service: Served and discharged from the air force military police (2017-2019)