

JeongHyeon Kim

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🌐 github.com/Juunghyeon

🌐 Juunghyeon.github.io

RESEARCH INTEREST

My research interests lie in **humanoid robotics** and **whole-body control**. I am interested in developing controllers that enable humanoid robots to perform complex, dynamic tasks through the integration of model-based and learning-based approaches.

EDUCATION

- **Korea University** *Mar.2025 – Present*
M.S. in Mechanical Engineering Seoul, Republic of Korea
- **Korea University** *2019 – 2025*
B.S. in Mechanical Engineering Seoul, Republic of Korea

EXPERIENCE

- **Human-Machine Systems Lab, Korea University** *Mar.2025 – Present*
Graduate Research Student (M.S.) Seoul, Republic of Korea
– Research on humanoid robotics and whole-body control
- **Human-Machine Systems Lab, Korea University** *Mar.2024 – Feb.2025*
Undergraduate Research Student Seoul, Republic of Korea
– Participated in robotics research projects

PROJECTS

- **Ladder-Crossing Robot** *Mar.2023 – Sep.2023*
Mechanism Design and Control
– Tools: Arduino, Creo, NX
– Programming Language: C++
- **Solar Tracking Parasol** *Sep.2023 – Nov.2023*
Mechanism Design and Control
– Tools: Arduino, AutoCAD
– Programming Language: C++

TECHNICAL SKILLS

Languages: Python, C/C++, MATLAB

Robotics: ROS2, Gazebo, URDF/XACRO

Tools: OpenCV, Arduino, Creo, NX, AutoCAD, SolidWorks, Git

OS: Linux (Ubuntu)

ACHIEVEMENTS

- **Awarded** in 2023 Capstone Design Fair *Nov.2023*