

Minjong Kim

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Education

Seoul National University	Mar. 2026 - present
– Integrated PhD program, Dept. of Electrical and Computer Engineering	
– Advisor: Jinsoo Kim, PhD	
– Total GPA: 0.00/4.30	In-Major GPA: 0.00/4.30
– Relevant Coursework:	
– ???	
Ulsan National Institute of Science and Technology (UNIST)	Mar. 2020 - Feb. 2026
– B.S. in Mechanical Engineering	
– Total GPA: 4.20/4.30	In-Major GPA: 4.26/4.30
– Relevant Coursework:	
– BME307 Biomechanics	
– MEN461 Introduction to robotics	
– MEN573 Advanced Control I	

Research Interests

My research interests include lower-limb wearable robots, gait augmentation, and human–robot interaction. I am particularly focused on improving gait performance and generating optimal motion patterns to enhance human mobility, with long-term applications in sports and performance augmentation.

Research Experience

Wearable Robotics Laboratory	Dec. 2024 - present
<i>Undergraduate Research Intern</i>	
Advisor: Jinsoo Kim, PhD	Seoul, South Korea
– Built a gait analysis pipeline using motion capture data, enabling kinematic extraction and gait event detection.	
– Implemented a real-time IMU-based gait metric and validated results against motion capture-derived reference measures.	
Ergonomics Laboratory	Jan. 2024 - Dec. 2024
<i>Undergraduate Research Intern</i>	
Advisor: Gwanseob Shin, PhD	Ulsan, South Korea
– Developed a predictive model for floor impact noise using gait acceleration features collected from human walking trials.	
– Designed a robotic control algorithm for a shoulder arthroscope based on surgeon head-motion tracking.	

Awards and Honors

National Scholarship for Science and Technology	Spring 2024 - present
Dean's List	Spring 2023, Fall 2024
UNIST Global Scholarship for the Exchange Student Program	2020

Activities

Student Council of Mechanical Engineering
Social Services Personnel (Alternative Military Service)

Mar. 2023 - July 2025
Mar. 2021 - Dec. 2022

Skills

Programming Languages: Python, MATLAB

Software: ROS1, CATIA, Fusion360

Biomechanical Equipment: Motion Capture Systems (OptiTrack, Vicon), Instrumented Treadmill (Bertec), Force Plates (Zebris), IMUs

Fabrication: 3D Printing, Laser Cutting

Languages: Korean (native), English (intermediate)