

# Minjong Kim

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## Education

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### 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

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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

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### Wearable Robotics Laboratory

Dec. 2024 - present

*Undergraduate Research Intern*

Seoul, South Korea

Advisor: Jinsoo Kim, PhD

- 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

*Undergraduate Research Intern*

Ulsan, South Korea

Advisor: Gwanseob Shin, PhD

- 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

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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

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Student Council of Mechanical Engineering

Mar. 2023 - July 2025

Social Services Personnel (Alternative Military Service)

Mar. 2021 - Dec. 2022

## Skills

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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)