Eunsu Lee

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Education

Seoul National University *Seoul, Korea*
Bachelor of Science in Mechanical Engineering *2018 - 2022*
- Total GPA of 4.0/4.3 (3.9/4.0) - **Summa Cum Laude**

Seoul National University *Seoul, Korea*
Masters of Science in Mechanical Engineering (Expected) *2022 - Present*
- Advisor: Yong-lae Park
- Total GPA of 4.18/4.3 (4.0/4.0)

Research Experience

Biorobotics Laboratory (Soft Robotics Research Center), Seoul National University *Seoul, Korea*
Undergraduate Research Intern *July 2020 - July 2022*
- Advisor: Kyujin Cho
- **Soft Robotic Wearable System for Ankle Sprain Prevention**
  - Designed, fabricated, and evaluated soft pneumatic actuators for ankle-specific wearable systems
  - Comprised a mechatronic system and devised a closed-loop control algorithm
  - Designed and conducted human performance evaluation
  - Related Skills: Design, Fabrication, System Integration, Mechatronics, Human Studies

Soft Robotics and Bionics Laboratory, Seoul National University *Seoul, Korea*
Research Assistant *August 2022 - Present*
- Advisor: Yong-lae Park
- **Multimodal Soft Optical Sensor for Human-Machine Interaction**
  - Designed, fabricated, and characterized optical waveguide sensor for bending and local contact measurement
  - Developed a sensorized wrist sleeve for human-machine interaction
  - Performed sensor response simulations using FEA software
  - Related Skills: Design, Fabrication, Simulation
- **Liquid Metal Thin Film based Multimodal Sensor**
  - Designed and fabricated multimodal sensor using liquid metal thin film deposition and micro-structuring of polymer surfaces
  - Experimentally characterized 3-dof multimodal sensor
  - Implemented machine learning algorithm for multimodal sensor signal processing
  - Related Skills: Design, Fabrication, Thin Film Deposition, Machine Learning

Technical skills

Programming languages and Softwares	Python, C/C++, LabVIEW, MATLAB, Arduino, SOLIDWORKS, COMSOL, Adobe Photoshop
Fabrication	Polymers, 3D printers, Fabric
Languages	English (Professional proficiency), Korean (Native Proficiency)

Honors and Awards

2018	**1st place**, Robocon, Seoul National University
2018	Merit-based Scholarship, Seoul National University
2019	Eminence Scholarship, Seoul National University
2021	Merit-based Scholarship, Seoul National University
2021	SNU Development Fund Scholarship, Seoul National University