

HoonJin Jung

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Research Interest: Human Computer Interaction, Wearables and Ubiquitous Computing with an emphasis on Machine Learning

EDUCATION

BACHELOR OF ELECTRONIC ENGINEERING IN HANYANG UNIVERSITY, REPUBLIC OF KOREA

BS in 1. Electronic Engineering and in 2. Biomedical engineering 02/2014 – 02/2021

Overall GPA: 3.78/4.00 Technical GPA: 3.87/4.00 (Upper Division GPA: 4.00/4.00)

UNIVERSITY OF TEXAS AT AUSTIN, UNITED STATES OF AMERICA

Exchange student in Electrical and Computer Engineering 08/2019 – 01/2020

Technical GPA: 4.00/4.00 (Upper Division GPA: 4.00/4.00)

PROJECTS

Brain Computer Interface as an Emotional Assistant: A system that classifies the user's emotional state, and give proper feedback automatically when needed (02/2020 – present, Hanyang University, Republic of Korea)

- Making Computer more empathic and useful through Brain Computer Interface: real-time emotion assessing system that controls peripheral environment for user's emotional recovery.

Sensing Soft Finger: Silicon Finger with PVDF Sensor (03/2020 – present, Industry-University Cooperation Foundation Hanyang University, Republic of Korea)

- Developing a tactile sensor(PVDF Piezoelectric Deflection Sensor) based precisely controllable pneumatic silicone finger to make human-robot interaction more comfortable.

Lu Research Group Undergraduate Research Assistant, (08/2019 – 12/2019, University of Texas at Austin, United States of America)

- Participated in research developing a wireless wearable device which can perform synchronous ECG and SCG measurement and extract various cardiac time intervals to track heart health.
- I fabricated new serpentine design for the Bluetooth layer and integrated it on the former model.

CAPTCHA Project (08/2020, Personal Project)

- Developed a system that can read distorted text with accuracy of 95%, by cropping the images into single character and augmenting images to prevent overfitting.

LAB EXPERIENCE

Nano Bio Technology (NBT) Lab winter break internship (01/2019 – 02/2019, Hanyang University, Republic of Korea)

- Participated Twistron research, energy harvesting in artificial muscle made with twisted Carbon Nano Tube(CNT) thread.
- Made CNT thread and tested how much energy each one can generate according to its thickness.

Nano electronics device Lab (NDL) Undergraduate Research Assistant (06/2018 – 12/2018, Hanyang University, Republic of Korea)

- Took a "Practical Electronic Engineering Research Initiative 1" course to as a NDL Lab intern.
- Tested microfluidic plate separation accuracy of cancer cells from blood model to optimize the injection speed of the model.

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SKILLS

- Software: Python, Matlab, Simulink, Arduino, Catia
- Core skills: Machine Learning, Electronics Circuit, 3D design and printing, biomedical device, laser cutter
- Language: English(fluent), Korean(native), Chinese(fair)

ACCOMPLISHMENTS and AWARDS

National Science & Technology Scholarship 03/2014 – 06/2014

Republic Of Korea Army 08/2015 – 05/2017

Academic Honor award 03/2018 – 06/2018

Academic excellent grade award 09/2018 – 12/2018

Academic Honor award 03/2019 – 06/2019

Academic Excellent Scholarship 03/2019 – 06/2019

The Right Hands scholarship 03/2019 – 06/2019

The Right Hands scholarship 06/2019 – 12/2019

The Right Hands scholarship 03/2020 – 06/2020

The Right Hands scholarship 09/2020 – 12/2020