

HoonJin Jung

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OBJECTIVE: Human (Brain) Computer Interface / Artificial Intelligence

EDUCATION

BACHELOR OF ELECTRONIC ENGINEERING IN HANYANG UNIVERSITY, REPUBLIC OF KOREA

BS in 1. Electronics 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

RESEARCH EXPERIENCE

Computational Neuro Engineering (CoNE) Lab Undergraduate Researcher, 02/2020 –

(Hanyang University, Republic of Korea)

- Currently doing a research on Brain Computer Interface: modifying surrounding environment in real-time when user's emotion is classified as negative valence.
- Expecting first thesis to be submitted by Dec/2020.

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

- Participated in developing and modifying wireless chest laminated ultrathin and stretchable E-Tatto.
- Hardware manufacturing, Circuit design.

LAB EXPERIENCE

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

- Participated in research "Twistron" energy harvesting in artificial muscle using twisted Carbon Nano Tube thread (CNT) as an intern.
- Main job was to make and test Twistron. Making CNT thread and tested how much energy one thread can make 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 experience NDL Lab
- Tested microfluidic plate with a blood model which contained cancer cells and wrote a report about it.

ACADEMIC EXPERIENCE

Currently on a project with Industry-University Cooperation Foundation Hanyang University, 03/2020 -

- Soft robotics – Developing Silicon Finger and Controlling it with Hydraulic Pressure and a PVDF sensor

Personal Project: CAPTCHA Prediction - Completely Automated Public Turing test to tell Computers and Humans apart with python 07/2020 -

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Exchange student experience, University of Texas at Austin, United States of America 08/2019 – 01/2020

- Undergraduate Research Assistant experience in LU Research Group
- Achieved Technical GPA 4.00/4.00 , Overall GPA 3.67/4.00

Studied Chinese in Beijing, Renmin University 08/2017 – 01/2018

- Conversant Chinese skills (HSK Level 4).

Completed Digital signal processing (DSP), Signals and Systems, Numerical Analysis, Circuit Theory, Microelectronic Circuits in Hanyang University

- Accomplished with straight "A"

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