**Research Interest: 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 Research Assistant, 02/2020 – present (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.

**Graduation Project, 03/2020 – present (Industry-University Cooperation Foundation Hanyang University, Republic of Korea)**

* Actuator with Piezoelectric Deflection Sensor – Developing Pneumatic Silicon Finger(Actuator) and Controlling it through data collected by PVDF sensor.

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

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

**LAB EXPERIENCE**

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

* Participated in follow up research of Twistron, 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 experience NDL Lab
* Tested microfluidic plate with a blood model which contained cancer cells and wrote a report about it.

**ACADEMIC EXPERIENCE**

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

**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

**Completed Related Course Work: Digital Signal Processing (DSP), Signals and Systems, Numerical Analysis, Biosignal Instrumentation and Practice (Hanyang University)**

* Completed with excellent grade

**SKILLS**

* Software: Python, Matlab, Simuliknk, 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