**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 -**

**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, 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