HoonJin Jung

+82)010-3114-2347 | davidhoonjin@gmail.com

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

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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

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