Haemin Jung

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EDUCATION

Chung-Ang University (CAU), Seoul, South Korea
Bachelor of Electrical & Electronics Engineering
Undergraduate fellowship (merit-based)
    Mar 2013 – Present
- Admission with high distinction
- Half tuition (granted for full semesters)

Whimoon High School, Seoul, South Korea
    Mar 2010 – Feb 2013

PROFESSIONAL EXPERIENCE

Chung-Ang University, Intelligent Robot and Visions Lab, Seoul, South Korea
Research Intern
    March 2020 – Present
- Research on sewer defect detection / classification methods
- Research on sewer water level time-series prediction using bi-LSTM

Chung-Ang University, Bioimaging and Signals Laboratory, Seoul, South Korea
Research Intern
    May 2019 – Present
- Research on impact of different light condition under dim light for remote-PPG
- Visual tracking application for laboratory rodent movement tracking using Matlab

Fill In, *funded by Seoul National University (SNU), Seoul, South Korea*
Cofounder, Joint Managing Director
    Sep 2017 – Mar 2019
- Circuit & PCB design / Product Management

Wigi Friends(為己아띠), *Seoul, South Korea*
Founder, Chief Moderator
    May 2015 – Nov 2015
- Debate club on reforming of the Korean education system

MILLITARY EXPERIENCE

2nd Guard Group, R.O.K Army Headquarters, Gyeryong, South Korea
Honorable Discharge, as Sergeant, 2nd Squad, 2nd Platoon, 1st Company
    Dec 2015 – Aug 2017
- Squad Leader / Company RTO (Radio Telephone Operator) / Platoon RTO
- Ranger Training Instructor for Gyeryong Joint Rangers Training (May – Jun 2016/2017)
- Platoon Peer Counselor (Nov 2016 – Aug 2017)
- Hosted and Developed "Find Your Dream" Community Program for 1st Company (May 2017)

PROJECTS & AWARDS

Muscle activation detection device, *Fill In*
Product Manager / HW Developer
    Dec 2018 – Mar 2019
- Designed instrumentation amp, active filter, rectifier for EMG acquisition circuit
- Developed signal processing methods for EMG activation detection

Venture Leading University Funding Program *($30k), SNU*
Joint Managing Director
    Aug 2018 – Mar 2019
- Received funding for muscle activation detection device (pivot from posture detection)

Smart mood light *based on ESP32, Fill In*
Product Manager / HW Developer
    Aug 2018 – Dec 2019
- Designed ESP32 base PCB with thermal considerations / ESP32 firmware

Honorable Mention, *Always-On Engineering Design Competition, CAU*
Team Leader
    May 2018 – Nov 2018
- Developed face recognition smart door lock system using Raspberry Pi
- Oversaw HW layout, algorithm design, project design & management

Creative Factory Start-Up Accelerating Program *($7k), SNU*
Joint Managing Director
    Dec 2017 – Mar 2018
- Received funding for work-out posture detection device based on load cells

Work-out posture detection device, *Fill In*
Product Manager / HW Developer
    Dec 2017 – Aug 2018
- Designed load cell based analog circuit / digital control circuit

Grand Prize, *Always-On Engineering Design Competition, CAU*   May 2015 – Nov 2015
Team Leader
- CNN based handwriting recognition algorithm and tactile representation system using Matlab and Arduino
- Oversaw HW layout, algorithm design, project design & management

SKILL & CERTIFICATION

Test of English as a Foreign Language (TOEFL) score of 110 out of 120
Circuit & PCB Design (Altium Designer)
Programming: Matlab, Python, C/C++, Javascript, HTML, CSS, Linux, GAS, OpenCV

EXTRACURRICULAR ACTIVITIES

Songdo Model Conference of Parties UN Climate Change Conference, *Incheon, South Korea*   Nov 2013
Chairperson of Technology Executive Committee