

HOON JIN JUNG

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RESEARCH INTEREST

Human Computer Interaction (HCI), Sensors, Ubiquitous Computing, Robotics and Fairness

EDUCATION

Hanyang University, Seoul, Republic Of Korea

B.S. in Electronic Engineering and Biomedical engineering

Mar.2014 - Feb.2021

Overall GPA: 3.79/4.00 Major GPA: 3.87/4.00 (last two years GPA: 4.00/4.00)

University Of Texas At Austin, United States Of America

Exchange program in Electrical and Computer Engineering

Aug.2019 - Jan.2020

Major GPA: 4.00/4.00 (Upper Division GPA: 4.00/4.00)

RESEARCH EXPERIENCE

Brain Computer Interface as an Emotional Assistant: Making computer more empathic and helpful to users

Hanyang University, Republic of Korea

Feb.2020 -

Target Journal/Conference: IMWUT 2021/2022

- Content: Developing real-time emotion assessing system with 89% classification accuracy, that controls peripheral environment to encourage user's emotional recovery.
- Contribution: Built emotion classification model, programmed APIs to control surrounding environment.

Sensing Soft Grasper: Silicon Arm with Tactile Sensor

Hanyang University, Republic of Korea

Mar.2020 -

Funded by Industry-University Cooperation Foundation (USD 6,200) Target Journal:

- Developed a Polyvinylidene Fluoride (PVDF) piezoelectric deflection sensor based precisely controllable soft robot finger (pneumatic silicone actuator) joined with soft robot arm: to make human-robot interaction safer and friendlier.
- Contribution: Proposed the project and received funding. Designed the thorough project, applied PVDF sensor to solve the precise control problem of pneumatic soft actuator and fully automatized grasping process through micro controller.

CAPTCHA Project: System that can Read Distorted Text Images

Personal Project

Aug.2020

- Developed a system that can read text correctly from image with distorted text with accuracy of 95%
- Solved data insufficiency (1000 training data set) and over-fitting problem through cropping the images into single character and augmenting it to multiply training data sets.

Chest Laminated Ultrathin and Stretchable Wireless E-Tattoo

University of Texas at Austin, United States of America

Aug.2019 - Dec.2019

- Participated in research developing a wireless wearable device that perform synchronous ECG and SCG measurement and extracts various cardiac time intervals to track heart health.
- Contribution: Fabricated and applied new serpentine design on the Bluetooth layer and integrated it to the former model.

ACCOMPLISHMENTS AWARDS

- | | |
|---------------------------------------------------------------------------------------------|---------------------|
| • National Science Technology Scholarship (100% of the Tuition) | Mar.2014 – Jun.2014 |
| • Leadership Scholarship (10% of the Tuition) | Sep.2014 – Dec.2014 |
| • <i>Achievement Award, Republic Of Korea Army</i> | Aug.2015 – May.2017 |
| • Hanyang International Student Ambassador Scholarship (30% of the Tuition for 2 semesters) | Mar.2018 – Dec.2018 |
| • Hanyang Pacemaker-Studying Community Scholarship | Mar.2018 – Dec.2018 |
| • Academic Honor Award | Mar.2018 – Jun.2018 |
| • Academic Excellent Grade Award | Sep.2018 – Dec.2018 |
| • Academic Honor Award | Mar.2019 – Jun.2019 |
| • Academic Excellent Scholarship (100% of the Tuition) | Mar.2019 – Jun.2019 |
| • <i>The Right Hands</i> Scholarship (100% of the Tuition for 4 semesters) | Mar.2019 – Dec.2020 |

VOLUNTEER WORK & TEACHING EXPERIENCE

Hanyang International Student Ambassador

Hanyang University, Republic of Korea

Mar.2018 – Dec.2018

- Taught Circuit Theory¹ as a teaching mentor for two international students.
- Opened an international event on Korean traditional holiday to help international students living alone in Korea enjoy.

1:1 Korean Language Tutoring

Hanyang University, Republic of Korea

Sep.2018 – Dec.2018

- Taught Korean in English to an international fellow student.
- Taught Korean in Chinese to an internal fellow student.

2018 HY Buddy Program

Hanyang University, Republic of Korea

Feb.2018 – Jun.2018

- Successfully completed 30 hours of volunteer work and showed positive attitude as a mentor of international exchange students.
- Supported my team to get used to school inside and outside.

LEADERSHIP

Founder & First President of Hanyang Rock Climbing

Hanyang University, Republic of Korea

Feb.2020 –

- Designed the club logo by myself.
- Founded and recruited rock climbing club successfully.

Student Representative of the Department of Electronic Engineering

Hanyang University, Republic of Korea

Mar.2014 – Dec.2014

- Attended representative's meeting every week with responsibility.
- Hosted an event for student and professors as a representative student of the department.

OTHERS

Renmin University, Beijing, China

Intermediate Chinese language course program

Aug.2017 – Jan.2018

Achieved Hanyu Shuiping Kaoshi(HSK) level 4