

HOON JIN JUNG

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RESEARCH INTERESTS

- Human-Computer Interaction, Sensing System, Ubiquitous Computing

EDUCATION

- **Hanyang University, Seoul** Mar.2014 - Feb.2021
B.S. in Electronic Engineering
B.S. in Biomedical Engineering
Overall GPA: 3.86/4.00 , Major GPA: 3.89/4.00 (Last Two Years GPA: 4.00/4.00)
- **University Of Texas, Austin** Aug.2019 - Jan.2020
Exchange program in Electrical and Computer Engineering
Major GPA: 4.00/4.00 (Overall GPA: 3.67/4.00)

RESEARCH EXPERIENCE

- **Brain-Computer Interface as an Emotional Assistant: Making computer more empathic**
Advised by Prof.Chang-Hwan Im, Hanyang University, Republic of Korea Feb.2020 -
Target Conference: IMWUT 2022
 - Developing real-time emotion assessing system with 89% accuracy and control peripheral environment to enhance user's emotional recovery.
 - Contribution: Led the project, built emotion classification model, utilized APIs to control surrounding environment.
- **Sensing Soft Grasper: Robot Finger Sense and Act Like Those of Humans**
Advised by Prof.Seung-Beck Lee, Hanyang University, Republic of Korea Mar.2020 – Dec.2020
Funded by National Research Foundation of Korea & Ministry of Science and ICT
Won Minister of Science and ICT Award in Practical Research Competition (2 Million KRW)
Target Journal: Soft Robotics Journal (SoRo) - Impact Factor 6.16
 - Developed tactile sensor-based precisely controllable automatized pneumatic soft finger that can sense bending status, touch, grip force, slip, and surface texture.
 - Contribution: Proposed project and received funding. Designed and led project, fabricated hardware, utilized sensor to monitor and control them.
- **CAPTCHA Project: System that Reads Distorted Text Images**
Personal Project Aug.2020
 - Developed system that can read distorted text images correctly with accuracy of 93%
 - Solved data insufficiency (1000 training data set) and over-fitting problem through cropping and augmenting images.
- **Chest Laminated Ultrathin and Stretchable Wireless E-Tattoo**
Advised by Prof.Nanshu Lu, University of Texas at Austin, United States Aug.2019 – Dec.2019
 - Contributed to research developing wireless wearable device that track heart health.
 - Contribution: Fabricated and applied serpentine design for Bluetooth circuit and integrated to the former model.

ACCOMPLISHMENTS & AWARDS

- **Minister Award from Ministry of Science and ICT- Top 0.52% (2 Million KRW)** Dec.2020
- **The Right Hands Scholarship (100% Tuition for 4 semesters)** Mar.2019 – Dec.2020
- **Industry-University Practical Research Competition Grand Prize (2 Million KRW)** Nov.2020
- **Academic Honor Award (Magna Cum Laude)** Jun.2020
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- **Academic Excellent Scholarship (100% Tuition)** Mar.2019
- **Academic Excellence Award (Summa Cum Laude)** Dec.2018
- **Hanyang Pacemaker-Studying Community Scholarship** Dec.2018
- **Hanyang International Student Ambassador (30% Tuition)** Dec.2018
- **Academic Honor Award (Magna Cum Laude)** Jun.2018
- *Achievement Award, Republic Of Korea Army* Aug.2015 – May.2017
- **Leadership Scholarship (10% Tuition)** Sep.2014
- **National Science Technology Scholarship (100% Tuition)** Mar.2014

VOLUNTEER WORK & TEACHING EXPERIENCE

- **Hanyang International Student Ambassador**
Hanyang University, Republic of Korea Mar.2018 – Dec.2018
 - Taught Circuit Theory1 as teaching mentor for two international students.
 - Held international events on Korean traditional holidays for international students.
- **1:1 Korean Language Tutoring**
Hanyang University, Republic of Korea Sep.2018 – Dec.2018
 - Taught Korean in English and Chinese to international fellow students.
- **2018 HY Buddy Program**
Hanyang University, Republic of Korea Feb.2018 – Jun.2018
 - Showed positive attitude as a mentor of international exchange students.
 - Supported my team members get used to inside and outside of school life.

LEADERSHIP

- **Founder & First President of Hanyang Rock Climbing Club**
Hanyang University, Republic of Korea Feb.2020 – present
 - Designed the club logo.
 - Founded and started rock climbing club successfully.
- **Squad Leader of Presidential House Security Guard**
202 Presidential House Security Corps Aug.2015 – may.2017
 - Led my squad in several military training.
- **Student Representative of the Department of Electronic Engineering**
Hanyang University, Republic of Korea Mar.2014 – Dec.2014
 - Hosted an event for students and professors as a representative of the department.

OTHERS

- **Renmin University, Beijing, China**
Intermediate Chinese language course program Aug.2017 – Jan.2018
 - Achieved Hanyu Shuiping Kaoshi(HSK) level 4