

# HOON JIN JUNG

Seoul, Korea, Republic of, 04790

✉ davidhoonjin@gmail.com • 🌐 davidhoonjin.github.io/

## 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: 3.79/4.00 , Major GPA: 3.85/4.00 (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 Award from Ministry of Science and ICT (2 Million KRW)  
Target Conference: Intelligent Robots and Systems (IROS) 2021
  - 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** (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
- **Academic Excellent Scholarship (100% Tuition)** Mar.2019
- **Academic Honor Award (Magna Cum Laude)** Jun.2019
- **Academic Excellence Award (Summa Cum Laude)** Dec.2018
- **Academic Honor Award (Magna Cum Laude)** Jun.2018
- **Hanyang Pacemaker-Studying Community Scholarship** Dec.2018
- **Hanyang International Student Ambassador (30% Tuition)** Dec.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