JINHYUK YOON

Medical Assistant Robotics and Cognitive Haptics Laboratory
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I'm an engineer proficient in presentation and public speech. With the interests in human-robot interaction and haptics, I aspire to design intelligent assistant robot that extend human capability. Also as a science communicator commissioned by the South Korean government, I have been succeeding in delivering knowledge about science to the children, student and public through public speech, performance and video art.

PROFESSIONAL EXPERIENCE

Medical Assistant Robotics and Cognitive Haptics Laboratory   Mar 2020 – Present
Research Assistant

Designing intelligent assistant robots that extend human capability through intuitive and immersive human-robot interfaces. Advisor: Keehoon Kim.

Geekble   Mar 2019 – Present
Project Manager (Freelance)

Leading an on-stage talk business for students focused on science and hands-on activities based on YouTube videos.

Interaction Laboratory   Feb 2019 – Aug 2019
Undergraduate Research Assistant

Conducted hardware prototyping, sensing system calibration, and user experiment design for augmenting programmable feels of physical buttons with vibrotactile feedback. Advisor: Seungmoon Choi.

Samsung Electronics, Digital Appliances Division, Core Component R&D Lab   Jan 2019 – Feb 2019
Mechanical Design Intern

Simplified design process of creating an appliance and helped engineers to modify mechanical property through Interactive Torque Designer which interprets dynamics with an intuitive graphic.

Korea Foundation for the Advancement of Science & Creativity   May 2016 – Jan 2018
Science Communicator (Freelance)

Succeeded effective understanding on the knowledge of mechanical engineering for elementary, middle school, high school students and adult through public speech and stage performance with participation of audience.

EDUCATION

Master of Science in Mechanical Engineering   2020 – Present
Pohang University of Science and Technology (POSTECH)

Research interests: Human-robot interaction, Haptics.
Advisor: Keehoon Kim

Bachelor of Science in Mechanical Engineering
2014 – 2020

Pohang University of Science and Technology (POSTECH)

Minor in Industrial Management Engineering.
Honor graduation with Magna Cum Laude.
Bachelor Thesis Project: Book Borrowing Robot.

EXPLORATION

Sovoro
Jan 2018 – Apr 2018

Communications Manager

Improved educational circumstance of hearing impaired as allowing them to understand the contents of usual class or seminar through conducting UI/UX research and designing the real-time transcript software.

Asan Medical Center, Biomedical Engineering Research Center
Aug 2017 – Sep 2017

Research Intern

Designed concept prototype of Ankle Rehabilitation Assistant which analyzes ankle torque and provides rehabilitative movement. Advisor: Youngjin Moon.

POSTECH, Department of Mechanical Engineering
Jan 2016 – Mar 2017

Student President

Requested for improvement and opening of major classes based on the students' needs and directed departmental level of general meeting, student membership training, professor appreciation banquet, and the first inter-university association program with KAIST.

POSTECH, Student Election Committee
Sep 2016 – Nov 2016

Chairman

Organized the student election committee and run the election for central student president.

TEDxPOSTECH
Nov 2014 – Nov 2015

Director

Organized talk conference that sold out after 50 seconds of opening sign-ups through team building, speaker and sponsor contact, stage planning and facilitating on the event.

PUBLICATIONS

Augmenting Physical Buttons with Vibrotactile Feedback for Programmable Feels
Chaeyong Park, Jinhyuk Yoon, Seungjae Oh, and Seungmoon Choi. In Proceedings of ACM UIST 2020.

To My Students, To My Teachers
Andrea Sohn and Jinhyuk Yoon. The Korea Fulbright Infusion, Vol 6, 2013, 39 – 41.

AWARDS AND HONORS

Commission Letter
2016

Minister of Ministry of Science & ICT commissioned me as a science communicator

Finalist   2016
Nationwide Top 11 of the 3rd FameLab Korea

1st Prize   2019
Developed campus map android application at the 7th POSTECH Hackathon

Runners Up   2017
Artience Creation Challenge 30x30 hosted by British Council Korea

Honorable Mention   2015
3 Minutes Science Speech Contest hosted by POSTECH

Student of the Year   2015, 2016
POSTECH, Department of Mechanical Engineering

4th Prize   2016
Designed graduate school searching web platform at the 2nd POSTECH Hackathon

National Academic Excellence Scholarship   2016 - 2019
Korea Student Aid Foundation, Full-tuition

KT&G Foundation Scholarship   2016
POSTECH

Jigok Scholarship   2014 - 2016
POSTECH, Full-tuition

SELECTED TALKS

Talk, *"About Experience"*, **POSTECH Senior Conference for Freshman**, Pohang   2018, 2019

Keynote Speech, *"Engineering and Science Communication"*, **The 5th Integrated Science Leading**   2016
Teacher Training, Yeongcheon

Keynote Speech, *"About Science Communication"*, National Youth Science Exploration Competition,   2016
Gyeongju

Talk, *"Regain the Lost Life"*, **Suseong-gu Gosan Library**, Daegu   2018

Talk, *"Regain the Lost Life"*, **KIST Science Station**, Seoul   2017

Talk, *"Space Food"*, **The 13th Bohyeonsan Starlight Festival**, Yeongcheon   2016

Talk, *"Science, Engineering and Me"*, **Seongji High School**, Yongin   2017

Talk, *"Communicate with Science"*, **Mulgeum High School**, Yangsan   2017

Talk, *"Talk with Odd Engineering Student"*, **Samsung Girl's High School**, Busan   2017

SKILLS AND TOOLS

Programming Language
C, C++, JAVA, MATLAB, HTML, CSS, JavaScript

Graphic Design
Adobe Photoshop, Illustrator, Premiere, After Effects, InDesign

3D Design Analysis
Solidworks, NX