

JINHYUK YOON

POSTECH, Medical Assistant Robotics and Cognitive Haptics Lab
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I'm an engineer proficient in project leading, 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

POSTECH, Medical Assistant Robotics and Cognitive Haptics Lab
Research Assistant

Mar 2020 – Present

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.

POSTECH, Haptics and Virtual Reality Laboratory
Undergraduate Research Assistant

Feb 2019 – Aug 2019

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

Korea Foundation for the Advancement of Science & Creativity
Science Communicator (Freelance)

May 2016 – Jan 2018

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
Pohang University of Science and Technology (POSTECH)

2020 – Present

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

Bachelor of Science in Mechanical Engineering
Pohang University of Science and Technology (POSTECH)
Minor in Industrial Management Engineering.
Honor graduation with Magna Cum Laude.
Bachelor Thesis Project: Book Borrowing Robot.

2014 – 2020

EXPLORATION

Samsung Electronics, Digital Appliances, Core Component R&D Lab
Mechanical Design Intern

Jan 2019 – Feb 2019

Simplified design process of creating an appliance and helped engineers to explain mechanical phenomena to other division members through Interactive Torque Designer which interprets dynamics with an uncomplicated graphic.

Sovoro
Communications Manager

Jan 2018 – Apr 2018

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
Research Intern

Aug 2017 – Sep 2017

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

POSTECH, Department of Mechanical Engineering
Student President

Jan 2016 – Mar 2017

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
Chairman

Sep 2016 – Nov 2016

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

TEDxPOSTECH
Director

Nov 2014 – Nov 2015

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.

AWARDS AND HONORS

Commission Letter Minister of Ministry of Science & ICT commissioned me as a science communicator	2016
Finalist Nationwide Top 11 of the 3 rd FameLab Korea	2016
1st Prize Developed campus map android application at the 7 th POSTECH Hackathon	2019
Runners Up Artience Creation Challenge 30x30 hosted by British Council Korea	2017
Honorable Mention 3 Minutes Science Speech Contest hosted by POSTECH	2015
Student of the Year POSTECH, Department of Mechanical Engineering	2015, 2016
4th Prize Designed graduate school searching web platform at the 2 nd POSTECH Hackathon	2016
National Academic Excellence Scholarship Korea Student Aid Foundation, Full-tuition	2016 – 2019
KT&G Foundation Scholarship POSTECH	2016
Jigok Scholarship POSTECH, Full-tuition	2014 – 2016

SELECTED TALKS

Talk, " <i>About Experience</i> ", POSTECH Senior Conference for Freshman , Pohang	2018, 2019
Keynote Speech, " <i>Engineering and Science Communication</i> ", The 5th Integrated Science Leading Teacher Training , Yeongcheon	2016
Keynote Speech, " <i>About Science Communication</i> ", National Youth Science Exploration Competition , Gyeongju	2016
Talk, " <i>Regain the lost life</i> ", Suseong-gu Gosan Library , Daegu	2018
Talk, " <i>Regain the lost life</i> ", KIST Science Station , Seoul	2017
Talk, " <i>Space food</i> ", The 13th Bohyeonsan Starlight Festival , Yeongcheon	2016
Talk, " <i>Science, Engineering and Me</i> ", Seongji High School , Yongin	2017
Talk, " <i>Communicate with Science</i> ", Mulgeum High School , Yangsan	2017

PUBLICATIONS

To My Students, To My Teachers

Andrea Sohn and Jinhyuk Yoon, *The Korea Fulbright Infusion*, Vol 6, 2013, 39 – 41.

About Mechanical Engineering

Jinhyuk Yoon, *POSTECHIAN*, Spring, 2016, 30 – 31.

TEDxPOSTECH Brighten by Passion

Jinhyuk Yoon, *POSTECHIAN*, Winter, 2015, 34 – 35.

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