

# Jinhyuk Yoon

## LivsMed

211, D-dong, 700, Pangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea

[jinhyukyoon@livsmed.com](mailto:jinhyukyoon@livsmed.com)

[jinhyukyoon.com](http://jinhyukyoon.com)

I'm a robotics engineer and science communicator with mechanical engineering background. As being passionate about problem solving and communication, I value providing practical solutions, facilitating team members, and sharing experiences with people.

## EXPERIENCE

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### LivsMed

Feb 2022 – Present

Robotics Engineer (Alternative military service)

Developing a software for teleoperating robotic system and kinematic simulation. Serves as a Technical Research Personnel.

### Medical Assistant Robotics and Cognitive Haptics Laboratory

Mar 2020 – Jan 2022

Research Assistant

Design, analyze, and control a planar cable-driven haptic interface with an adaptive mechanism to maximize workspace. Lead hardware development of a national research foundation project. Advisor: Keehoon Kim.

### Korea Foundation for the Advancement of Science and Creativity

May 2016 – Dec 2020

Science Communicator

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.

### Geekble

Mar 2019 – Feb 2020

Project Manager

Led an on-stage talk business for students that entertain science and hands-on activities based on videos and tangible art works.

### Interaction Laboratory

Feb 2019 – Aug 2019

Undergraduate Research Assistant

Prototyped hardware and designed sensing system 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

Developed a web application that simplified hinge design process with data visualization, dynamic analysis, and reverse engineering concept.

## EDUCATION

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### Master of Science in Mechanical Engineering

2020 – 2022

Pohang University of Science and Technology (POSTECH)

Master thesis: Development of an adaptive planar cable-driven haptic interface to maximize workspace for virtual education contents. Advisor: Keehoon Kim.

### Bachelor of Science in Mechanical Engineering

2014 – 2020

Pohang University of Science and Technology (POSTECH)

Honor graduation with Magna Cum Laude.

Minor in Industrial Management Engineering.

Served as student president of Dept. of Mechanical Engineering and director of TEDxPOSTECH.

## PUBLICATIONS

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### Augmenting Physical Buttons with Vibrotactile Feedback for Programmable Feels

Chaeyong Park, Jinhyuk Yoon, Seungjae Oh, and Seungmoon Choi. In Proceedings of ACM UIST 2020. (Acceptance rate 21.6%)

## AWARDS AND HONORS

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### 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

### Winner

2019

Developed campus map android application at the 7th POSTECH Hackathon

### Runners Up

2017

Created media artwork at the Artience Creation Challenge 30x30 hosted by British Council Korea

### Honorable Mention

2015, 2020

Introducing My Research, 3 Minutes Science Speech Contest hosted by POSTECH

### Student of the Year

2015, 2016

POSTECH, Department of Mechanical Engineering

### 4th Place

2016

Designed graduate school searching web platform at the 2nd POSTECH Hackathon

### Research Assistantship

2020 - 2022

POSTECH

### Teaching Assistantship

2020

POSTECH

### National Academic Excellence Scholarship

2016 - 2019

Korea Student Aid Foundation, Full-tuition

### KT&G Foundation Scholarship

2016

POSTECH

## **SKILLS AND TOOLS**

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### **Programming Language**

C++, MATLAB

### **Real-time control**

Linux(Preempt-RT), EtherCAT(Acontis), TwinCAT

### **3D Design**

Solidworks