



Jaewoo Jung

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<https://lukael.kr>

Address

Seoul, Republic of Korea

Jaewoo Jung

University Student

Education

2015 - Present, Yonsei University

Electrical and Electronic Engineering

2013 - 2015, Changwon Science High School

Chemistry

Experience

Jan 2019 - Present, Internship, Optical Imaging Systems Laboratory in Yonsei University

Detailed achievements:

- Human-Biology Interaction
 - Biotic Games
- Microscopy
 - Digital In-line Holography

Dec 2016 - Dec 2018, Internship, Biological Cybernetics Laboratory in Yonsei University

Detailed achievements:

- Swarm robotics
 - Hardware
 - * FreeRTOS
 - * Wi-Fi
 - * Bluetooth
 - * Vibration Control
 - Software
 - * Formation
 - * Charging system

Mar 2017 - Dec 2017, Research Engineer, Luxrobo

Detailed achievements:

- Network Module Firmware
 - FreeRTOS
 - Wi-Fi
 - BLE
 - USART
- OS Development
 - RTOS research
 - Contiki OS
- Bluetooth 5
 - Nordic nRF52DK
 - Mesh Network
- NLP
 - Chatscript
 - Slack-Chatscript Linkage(Python)

Jan 2017 - Dec 2017, President, SBTM

Robot club in Yonsei University



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Software Development Skills

Programming

- C/C++
- Python
- MATLAB

Computer Software

- LaTeX
- Eagle CAD
- Git

Competitions

2019, *International Student Car Competition, KTSA*

Autonomous driving Cart

2018, *International Student Car Competition, KTSA*

Autonomous driving Cart

LIDAR Team

2017, *Smart Model Car Competition, Hanyang University*

Autonomous driving Model Car

Team Leader, Hardware Engineer

2016, *Smart Model Car Competition, Hanyang University*

Autonomous driving Model Car

Hardware Team

2016, *Korea Robot Aircraft Competition, KAIA*

Autonomous driving Quadcopter

Team Leader, Hardware Engineer

2014, *Student Science Invention Competition, GNSE*

Mono/Stereo Earphone

2014, *ISEF-K, KOFAC*

Study on Gas phase Adsorption of Toxic substances on ES, ESM and Filter

2014, *Science Exhibition, GNSE*

Measuring Chemical reaction rate using Smartphone

2014, *Steam R&E Festival, KOFAC*

Smartphone Application for Chemistry Experiment

2013, *Student Science Invention Competition, GNSE*

Easy Bookbinding Tape Cutter

2013, *Student Creativity Festival, GNE*

Between Ventilation and Insulation

2013, *Embedded Software Contest, KESSIA*

Minesweeper Robot using LEGO Mindstorm

Hardware Engineer

2013, *R&E Festival, KOSAF*

Develop Filters made from ESM's Toxic substances Absorptive Ability



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Publications

2018, Various Swarm Behavior Inspired by Nature Using Vibration Locomotion Robots, Capstone Design

2018, Swarm Robots Using Vibration Motor Control, ICROS

Plays

2019, Core-XY Autonomous Chess board

2018, Localization using multiple Gyroscope

2016, Humanoid(KHR-1)

2016, LED cube($8 \times 8 \times 8$)

2016, Robot Soccer

2015, Quadcopter

2015, Guitar Effector

Interests

Professional

NAS, Management, Forensic, Security

Personal

Bass guitar, Reading, Tea