



**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

### 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(8×8×8)*

2016, *Robot Soccer*

2015, *Quadcopter*

2015, *Guitar Effector*

## Interests

### Professional

NAS, Management, Forensic, Security

### Personal

Bass guitar, Reading, Tea