Jaewoo Jung

MS/PhD Student

Jaewoo Jung

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https://lukael.kr

Address
Seoul, Republic of Korea

Education

2020 - Present, Yonsei University
Electrical and Electronic Engineering

2015 - 2020, Yonsei University
B.S. in Electrical and Electronic Engineering

2013 - 2015, Changwon Science High School
Chemistry

Experience

Mar 2020 - Present, *Graduate Student, Optical Imaging Systems Laboratory in Yonsei University*
Detailed achievements:
- Human-Biology Interaction
  - Biotic Games
- Lensless Microscopy
  - Digital In-line Holography
- Lensless Imaging
  - Deep Learning for image reconstruction

Jul 2019 - Feb 2020, *Engineer, Toky*
Detailed achievements:
- Voice recognition kiosk
  - Voice recognition
  - Raspberry PI

Jan 2019 - Feb 2020, *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

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Mar 2017 - Dec 2017, *Research Engineer, Luxrobo*
Detailed achievements:

- Network Module Firmware(ESP32)
  - 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

Software Development Skills

Programming

- C/C++
- Python
- MATLAB

Computer Software

- LaTeX
- Eagle CAD
- Git

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Competitions

2019, *Undergraduate Research Program*, KOFAC
High speed lensless camera for microsaccades measurement

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 Engineer

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

2020, *MicroAquarium : An Immersive and Interactive Installation with Living Microorganisms,* **ACM conference on Human Factors in Computing Systems (CHI) Extended Abstracts**

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

2018, *Swarm Robots Using Vibration Motor Control,* **ICROS**

Conference Presentation

2020, *Poster,* **Optical Society of Korea Summer Meeting**
Kyung Chul Lee, Kyungwon Lee, **Jaewoo Jung**, Se Hee Lee, Seung Ah Lee, *Wide-field Computational Microscope on a Smartphone Using Screen Illumination*

2019, *Poster,* **Advanced Biophotonics Conference Optical Society of Korea**
Tae Young Kim, Nak Kyu Baek, **Jaewoo Jung**, Minhyeok Lee, Seung Ah Lee, *High-Speed Lensless Camera for Microsaccade Measurement*

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, DevOps, Forensic, Security

Personal
Bass guitar, Reading, Tea