

Junkeun Park

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Skills

Software

- Fluent: C, Python (TensorFlow, PyTorch), MATLAB, Linux
- Intermediate: C++, JULIA, LaTeX, Markdown
- Basic: Verilog, Android, Java, SQL, HTML, CSS

Hardware

Analog Circuits (audio amp,) Arduino (touch sensor,) Digital Circuits and FPGA (VGA controller), Raspberry Pi

3D Printing (worked as lab manager)

Designing with Autodesk Fusion 360, printing with Ultimaker and Formlabs

Language

Fluent: Korean (Native), English
Basic: French

Leadership

Joint Alumni Association of Gangseo High - Yonsei Univ.

President Mar. 2017 ~ Present

- Rebuilt the leadership after a sudden disappearance of a former president.
- Held alumni career fair and exam snack event.

Kwan-Seol Cha-Hoe: Korean

Traditional Tea Club, Yonsei Univ.

Pes, VP, Treas. Jul. 2015 ~ Jan. 2017

- Planned and conducted tea lectures in English for international students.
- Established connection between the club and BongChu Food System Co. to evaluate their tea products.
- Launched club asset list to control stock of teas and equipment.

Volunteer

Ji-eum, Yonsei Univ.

Oct. 2017 ~ Jun. 2019

- Deployed, collected, washed tumblers which were free to borrow to reduce the usage of disposable cups.
- Cleaned school cafeteria and donated my earnings to students with lower income.

Education

University of Michigan

Ann Arbor, MI
Apr. 2021
GPA: 3.23 / 4.00

Yonsei University

Seoul, South Korea
Aug. 2019
GPA: 3.61 / 4.30

Work

Dell EMC via Multidisciplinary Design Program at UMich

Ann Arbor, MI
Jan. 2020 ~ Dec. 2020

Software Engineer (Backend), Project Manager

- Implement a system that locates assets in data center using Bluetooth 5.1 direction-finding technology.
- Research on algorithm of Angle of Arrival and triangulation, and implement them in Python (NumPy, TCP).

POSCO, Electrical & Instrument & Control Tech Division

Pohang, South Korea
Jan. 2019 ~ Feb. 2019

Intern

Proposed Time-Frequency Domain Reflectometry, a cable diagnosis method using signal processing for steel mill.

Engineering Information Processing Class, Yonsei Univ.

Seoul, South Korea
Sep. 2018 ~ Dec. 2018

Teaching Assistant

Trained freshmen in C language during the lab session.

UNESCO APCEIU

Seoul, South Korea
Jul. 2015 ~ Aug. 2015

Intern; Organizer & Field Staff

Prepared and operated 15th Asia-Pacific Training Workshop involving 30 educators from 19 countries.

Research

Optical Imaging Systems Lab, Yonsei Univ. (Advisor: Prof. Seung Ah Lee)

biomedia.yonsei.ac.kr

Seoul, South Korea

Mar. 2019 ~ Jun. 2019

Research Assistant

Finding a hidden camera using Raspberry Pi IR Camera.

Lensless Microscopy / Purkinje Imaging

Medical A.I. Lab, Yonsei Univ. (Advisor: Prof. Dosik Hwang)

mai-lab.net

Seoul, South Korea

Dec. 2016 ~ Jun. 2017

Undergraduate Researcher

Implemented a novel CNN (TensorFlow) involving Fourier transform to remove artifacts from undersampled MR images.

Projects

Computer Vision, UMich

Implemented "Few-Shot Adversarial Learning of Realistic Neural Talking Head Models". Apr. 2020

Terminal Live @ Umich by Citadel & Correlation one, Ann Arbor

Designed algorithms for Terminal hackathon, an automated real-time strategy game. Sep. 2019

Computer Architecture, Yonsei Univ., Seoul, South Korea

Implemented Pipelined Architecture of MIPS Processor. May 2018 ~ Jun. 2018

Video Interpolation, Yonsei Univ, Seoul, South Korea

Designed an RNN architecture that improved FPS of a video. Oct. 2017 ~ Dec. 2017

Digital Signal Processing, Yonsei Univ. Seoul, South Korea

2D Signal Filtering & Coding / Audio Signal Filter Design (MATLAB) Mar. 2017 ~ Jun. 2017