

Dongkyu Lee

ELECTRONICS ENGINEER · HARDWARE

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Education

Kyungpook National University

B.S. IN ELECTRONICS ENGINEERING

- Got a science and engineering Scholarship which is given to promising students in KOSAF

Daegu, S.Korea

Mar. 2012 – Feb. 2018

Kyungpook National University

INTEGRATED PH.D. IN ELECTRONICS ENGINEERING

Daegu, S.Korea

Mar. 2018 – Present

Skills

Programming C/C++, LaTeX, Verilog

Languages Korean, English

Experience

ACES Coding camp, Kyungpook National University

SOFTWARE TRAINEE

- Studied Linux programming and enhanced coding skills
- Conducted to install Raspberry-pi bootloader and to construct device driver

Daegu, S.Korea

Jun. 2016 – Aug. 2016

ACES Coding camp, Kyungpook National University

SOFTWARE TRAINER

- Taught Linux programming and Data structure
- Construct Shortest path finding program using google map API

Daegu, S.Korea

Dec. 2016 – Feb. 2017

CK, Kyungpook National University

TUTOR

- Taught Microprocessor to electronics engineering students
- Taught Computer system to electronics engineering students

Daegu, S.Korea

Mar. 2017 – Dec. 2017

Kyungpook National University

TEACHING ASSISTANT

- Taught Microprocessor to electronics engineering students from Mar. 2018 to Jun. 2018
- Taught Data structure to electronics engineering students from Sep. 2018 to Dec. 2018
- Taught Microprocessor to electronics engineering students from Mar. 2019 to Jun. 2019

Daegu, S.Korea

Mar. 2018 – Jun. 2019

Kyungpook National University

EXPERIMENT LECTURER

- Taught C programming language

Daegu, S.Korea

Mar. 2020 – Present

Extracurricular Activity

ACES (Application-aware Computing for Embedded Systems) LAB

MEMBER

- Gained fundamental knowledge in Hardware design
- Write several paper about visulaization platform

S.Korea

Jun. 2016 - PRESENT

Presentation

2017 IEEE Conference on Dependable and Secure Computing (DSC 2017)

Taipei, Taiwan

POSTER PRESENTER

Aug. 2017

- Interactive Simulation Platform using Processing-based Visualization for Safe Self-Organizing Autonomous Driving Algorithm Development

2018 IEEE Symposium on Low-Power and High-Speed Chips and Systems (CoolChips 2018)

Yokohama, Japan

POSTER PRESENTER

Apr. 2018

- Remote On-Demand Code Execution Framework using Code Memory Cloudification for Low-Power, Large-Scaled IoT Applications

ICIT 2018

Hongkong

ONLY FOR PRESENTATION SESSION

Dec. 2018

- Efficient Partitioning of On-Cloud Remote Executable Code and On-Chip Software for Complex-connected IoT

The 6th IEEE International Conference on Big Data and Smart Computing (BigComp 2018)

Kyoto, Japan

REGULAR PRESENTER

Feb. 2019

- Efficient Partitioning of On-Cloud Remote Executable Code and On-Chip Software for Complex-connected IoT

International Conference on Electronics, Information, and Communication (ICEIC) 2020

Barcelona, Spain

POSTER PRESENTER

Jan. 2020

- Scrambling Technique of Instruction Power Consumption for Side-Channel Attack Protection

World IT Congress 2020 (WITC 2020)

Seoul, Korea

REGULAR PRESENTER

Feb. 2020

- On-Chip Flash Memory Cloudification for IoT Environment Acceleration Using Server-Side Remote Execution Code

Publications

INTERNATIONAL JOURNAL PAPER

Processing-based IoT Visualization for Fast Development of Safe, Collision-Free Autonomous Driving

IJAER 2017

DONGKYU LEE, JEONGHUN CHO, DAEJIN PARK

2017

- Scopus

On-Demand Remote Software Code Execution Unit Using On-Chip Flash Memory Cloudification for IoT Environment Acceleration

JIPS 2020

DONGKYU LEE, MOON GI SEOK, DAEJIN PARK

2020

- Under review

DOMESTIC JOURNAL PAPER (KCI)

Cloudification of On-Chip Flash Memory for Connected Instruction Executable IoTs

IEMEK 2019

DONGKYU LEE, JEONGHUN CHO, DAEJIN PARK

Apr. 2019

INTERNATIONAL CONFERENCE

Interactive Simulation Platform using Processing-based Visualization for Safe Self-Organizing Autonomous Driving Algorithm Development

DSC 2017

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Aug. 2017

Remote On-Demand Code Execution Framework using Code Memory Cloudification for Low-Power, Large-Scaled IoT Applications

CoolChips 2018

DONGKYU LEE, JEONGHUN CHO, DAEJIN PARK

Apr. 2018

Efficient partitioning of On-Cloud Remote Executable Code and On-Chip Software for Complex-Conncted IoT

DONGKYU LEE, JEONGHUN CHO, DAEJIN PARK

BigComp 2019

Feb. 2019

Scrambling Technique of Instruction Power Consumption for Side-Channel Attack Protection

DONGKYU LEE, MYEONGJIN KANG, PETER PLESZNIK, JEONGHUN CHO, DAEJIN PARK

ICEIC 2020

Jan. 2020

On-Chip Flash Memory Cloudification for IoT Environment Acceleration Using Server-Side Remote Execution Code

DONGKYU LEE, DAEJIN PARK

WITC 2020

Feb. 2020

- Invited to the JIPS journal