

Haneul Park

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SUMMARY

I am an undergraduate student majoring in Electrical and Computer Engineering at Seoul National University. My research interest lies on computer architectures; designing a high performance computer. I am currently wishing to study abroad for a PhD Degree.

EDUCATION

Seoul National University, Seoul *Mar 2018 - Now*

B.S. in Electrical and Computer Engineering

GPA: 4.16 / 4.3 (Overall), 4.2 / 4.3 (Major)

Gyeonggi Science High School for the gifted, Gyeonggi-do *Mar 2015 - Feb 2018*

TECHNICAL SKILLS

Programming: C, C++, Verilog, Python, JavaScript, MATLAB

Linguistics: TOEFL(105/120), TOEIC(985/990)

PROJECTS

Adding Multi-GPU Support on Gem5 *Jan 2022 - Jul 2022*

Graduation project supervised by, HPCA Lab, Prof. Jangwoo Kim

- Modified Gem5 AMD APU model to support multi-GPU simulation
- Most changes are done in emulated kernel driver(ROCK)

Power Management in Remote Memory System *Jul 2022 - Now*

Internship program supervised by, ARC Lab, Prof. Jae Wook Lee

- Setting up experiment for power and performance of the system
- Contributed on experiment configuration and writing paper

Designing AI Accelerator on FPGA *Sep 2021 - Dec 2021*

Digital System Design, Prof. Jaewoong Sim

- Implemented computing part based on systolic array design.
- Inference CIFAR-10 on revised VGG model.

HONORS AND AWARDS

Presidential Science Scholarship *Mar 2018 - Now*

KOSAF, Fully funded scholarship and additional 5M KRW per year for undergraduate course

OK Bae & Jung Scholarship *Sep 2019 - Now*

OK Foundation, 9M KRW per year for undergraduate course

Artificial Intelligence Xelerator (AIX) Design Contest, 2nd prize *Feb 2022 - Jul 2022*

Nation-wide contest organized by POLARIS, a university union for semiconductor evolution

16th Korean Young Physicists' Tournament (KYPT), 3rd prize *2017*

Winter program for International Physics Olympiad (IPhO) candidates *2015, 2016*

EXTRACURRICULAR

Military Service: Served as Auxiliary Police (Feb 2019 - Aug 2021)

Volunteer Activity: Total 338 hours, mostly teaching activity

Teaching Experience: Participated in peer-tutoring at SNU as a tutor in Calculus (2019 Spring, 2022 Spring) and Engineering Mathematics (2019 Fall)