

Sean Koo (Young-hyun)

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EDUCATION

B.S. Computer Engineering

University of Utah

Est. Grad. Dec 2024

GPA: 3.6

SKILLS & RELEVANT COURSEWORK

- | | | | |
|--------------|-------------------|---------------------|-----------------|
| ● C | ● Verilog | ● FPGA | ● PCB design |
| ● C# | ● VLSI | ● Embedded system | ● Data analysis |
| ● Java | ● Chip design | ● Assembly language | ● SQL |
| ● Python | ● Virtuoso | ● MATLAB | ● Database |
| ● HTML/CSS | ● Analog circuits | | ● Mathematics |
| ● JavaScript | ● UART/SPI | | ● Algorithm |

PROJECTS

Wireless IMU Communication Chip

Aug 2023-Dec 2023

- Designed and simulated an application specific integrated chip(ASIC) in Verilog for wireless IMU communication using UART & SPI communication protocols
- Minimized delay within 20ms in each process

Stellar Trespassers

Aug 2023-Dec 2023

- Created Space Invader motivated game using Verilog and MIPs on FPGA with VGA monitor

JOB EXPERIENCE

Teaching Assistant, University of Utah Asia Campus, Incheon, South Korea

Feb 2023 – Jun 2023

- Conducted weekly lab sessions & office hours for 15+ students
- Helped students with circuit design & building, & MATLAB

IT Coordinator, Triple A Dental, Seongnam City, South Korea

Jan 2020 – Jan 2021

- Managed and updated office's website daily and answered customer's questions
- Assembled three new computer systems and managed hardware and software for 15 computer units, ensuring optimal performance and functionality

Cable Technician, UIT, Salt Lake City, Utah

Feb 2019 – Dec 2019

- Provided customer service on their cable needs
- Installed ethernet cable throughout the campus
- Fixed damaged cables and ports

Inventory Mgt. Specialist, Mi Dang International, Yong In City, South Korea

Dec 2016 – Feb 2017

- Counted products, and digitalized the numbers and bar codes in an Excel spreadsheet
- Packaged ordered products and ship them to customers

COMMUNITY ENGAGEMENT

Community Volunteer, LDS Church, Korea Busan Mission

Oct 2014 – Oct 2016

- Negotiate and handle difficult situations by seeking information and helping people
- Managed & motivated over 40 other volunteers from varied backgrounds to solve problems and reach goals