

JOSHUA KO

(925) 519-9676 | joshuadohako@gmail.com | [Linkedin](#) | kojosh.github.io/joshuako/

EDUCATION

University of California, Irvine

Irvine, CA

B.S., Computer Engineering, GPA: 3.80

Expected Graduation: March 2027

Dean's Honor List (3 Quarters)

Relevant Coursework: Data Structures, Software Engineering in C, Discrete-Time Signals/Systems, Network Analysis, Electronics, Organization of Digital Computers, Digital Systems

TECHNICAL SKILLS & INTERESTS

- **Computer Programming Languages:** C++ (proficient), Python (intermediate), Verilog (intermediate)
- **Circuit Design:** LTSpice, oscilloscope, digital and analog circuits
- **Languages:** English (Native proficiency), Korean (Limited working proficiency), Spanish (Conversational)
- **Awards:** Gold Key Award (Scholastic Art & Writing Competition 2020)

ENGINEERING PROJECT EXPERIENCE

Arduino Basics

DIY projects for learning

August 2025 – September 2025

- Programmed sketches using the Arduino IDE to communicate with the Arduino UNO R3 board, sensors, and actuators
- Assembled a locking mechanism that unlocks in response to a specific knocking pattern using resistors, LEDs, a capacitor, a piezoelectric sensor, a servo motor, and a switch
- Applied version control by committing code changes locally and pushing to GitHub using Git

RISC-V Processor

Intro to Digital Logic Lab project

January 2025 – March 2025

- Design and validate modules of a single-cycle RISC-V processor using Verilog
- Create lab reports and record testbench results of modules including instruction memory, register file, ALU, and data memory
- Test and debug using the Vivado Design Suite IDE

ADDITIONAL EXPERIENCE

Sodam (Korean Restaurant)

Dublin, CA

Store Associate

August 2022 – July 2023

- Utilized various cooking tools and machines in order to prepare ingredients and Korean side dishes
- Managed inventory of food ingredients and frequently practiced methods of cleaning and preparing foods for cooking and storing
- Maintained high standards of food quality by reviewing shipments of raw food materials, cleaning storage areas regularly, and by following food safety protocol

Creekview Health Center

Pleasanton, CA

Assisted Living Intern

January 2022 – May 2022

- Facilitated daily routine of nurses who clean, feed, and care for 10+ patients by administering medication, transporting supplies and food, and fulfilling the general needs of each patient
- Practiced examination of one's vital signs by operating medical equipment to measure pupil dilation, blood pressure, blood oxygen levels, height, and weight

SOMISOMI

Pleasanton, CA

Store Associate

July 2021 – August 2022

- Worked with a team to facilitate smooth operations and high standards of customer service during high-volume rushes
- Communicated effectively with a team of four to five coworkers to increase efficiency and safety

LEADERSHIP & INVOLVEMENT

New Vision Church

Milpitas, CA

Praise Team

October 2016 – Present

- Prepare for Sunday service by practicing and coordinating with other team leaders
- Lead the English Worship congregation into praise through drumming