

Joe Ma

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SUMMARY

Recent Electrical Engineering graduate with some experience programming in languages such as Java, C, Matlab, and JS as well as having experience in the food/ service industry and has participated in a virtual development summit with peers from around the globe.

EDUCATION

Bachelor of Science in Electrical Engineering

Minor in Applied Mathematics • Boise State University • Boise, Idaho • 2021 • 3.83 GPA

PROJECTS

Smart Mask - Senior Design Project

Boise State University • August 2020

- Led a multidisciplinary team of 6 consisting of MEs and EEs from concept to the prototype of a Smart Mask.
- Designed electronics block diagrams/ schematics in Eagle.
- Developed low-level software for the Smart Mask in C/C++.
- Implemented an Android app for reading real-time data in Java.
- Wrote documentation for the low-level software.
- Charted and calculated theoretical battery life data in Jupyter Notebooks and Matlab.

CERTIFICATIONS

Security in Cyber-Physical Systems: Hardware and Firmware Focus

Boise State University • 2021

Learned about security implications in Cyber-Physical Systems

COURSEWORK

Intro to Systems Programming

Learned and applied Systems Programming by developing C code in Linux

Navigating Computer Systems

Learned and used Linux shell operations as well as created and used bash files.

Embedded Systems

Learned how to program C on the ATMEGA324PA via Atmel Studio and AVR Dragon

Microprocessors

Learned how to use Assembly and C in an ARM based development scenario

EXPERIENCE

Freelance Editor / Content Creator

Jade Studios

, August 2013 - Current

- Created gameplay videos using PowerDirector 14/ Davinci Resolve.
- Created and maintained static websites.
- Wrote bots/ plugins for games and messaging platforms in Java and Node.js.

HP Summer Scholar

HP

, June 2020 - July 2020

- Participated in a development summit with peers from around the globe.
- Researched and presented a new sustainable idea for 3D printing.

Assistant Manager

Mandarin Dynasty

November 2014 - June 2019, Fruitland, Idaho

- Maintained a website through a proprietary CMS.
- Managed front-of-house and helped train new employees.
- Managed inventory for front-of-house and reported any shortages.
- Acted as an intermediary/translator for kitchen staff and waitstaff.
- Provided technical support for network-related outages.