BRIAN CROSS

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ELECTRICAL AND COMPUTER ENGINEER

A solid and growing software and firmware skill-set from Python to SystemVerilog alongside awarded academic excellence. This is augmented by relevant real-world experience that produced valuable, in-use products. Comfortable and proven team leader and contributor.

EDUCATION

Oregon State University (OSU) - Corvallis, OR September 2016 - Present (Expected June 2020)
Major: Electrical and Computer Engineering
Minor: Computer Science **GPA**: 3.98

EXPERIENCE

Collins Aerospace - Engineering Intern June 2019 - September 2019

- Developed and debugged GUI testing tools in both Java and C++ leveraging a USB interface
- Dealt with multi-thread applications, complex class relationships and low-level hardware designs
- Wrote an image filtering application in MATLAB to simulate image manipulation in hardware designs
- Tools: Microsoft VS and Excel, Netbeans, DxDesigner, MATLAB and oscilloscopes

OSU Sensors Lab - Undergraduate Research Assistant April 2018 - June 2019

- Designed discrete sensor interfaces on custom PCB, including 8-channel 4-wire ohmmeter
- Created a MATLAB GUI to analyze and display data as well as control other devices
- Hardware involved: precision ADCs, Arduino, anti-aliasing filters, constant current ICs, and interface circuitry

EC Tax Solutions - Software Developer June 2017 - April 2018

- Developed Android applications and in-use Java tax applications in an AGILE environment
- Became comfortable with: REST calls, databases and their structure (one-to-many, many-to-one), delivering and contributing to architectural requirements and managing large objects in Java
- Tools: Intellij, Java, Spring, Android Studio, Oracle, JUnit testing and Github

OSU - Computer Science Lab Teaching Assistant September 2017 - December 2017

- Led students in their introductory CS lab classes in C++ and C
- Responsibilities included: running labs, holding office hours, teaching basic C++, Bash, and grading

SKILLS - COURSEWORK

Programming	Python, C/C++, MATLAB, Java, Simulink, Assembly and SystemVerilog
Relevant Courses	Operating Systems, Data Structures, Algorithms, VLSI, Digital Image Processing, Cyber-Physical Systems, Digital Signal Processing, Introduction to Databases
Relevant Projects	Bio-potential Gesture Controlled Drone (Machine Learning, GUI, RESTful), Pacemaker and Anti-Brake System modeling and verification (Simulink, MATLAB)

ACHIEVEMENTS - POSITIONS

Eta Kappa Nu Treasurer	2019 - Present
Eta Kappa Nu, IEEE Honors Society, Sophomore of the Year	2018
State Doubles Champion, All-American and High School team captain in racquetball	2014 - 2016
High School Salutatorian	2016