Ryan White

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EDUCATION

California State Polytechnic University, Pomona

Bachelors of Science in Computer Engineering, Minor in Entrepreneurship

Major GPA: 3.82 Cumulative GPA: 3.65

President's List 2 Years 6 Terms

Dean's List — College of Engineering

TECHNICAL SKILLS

Listed in descending levels of understanding

C, C++, Verilog, HTML, CSS, JavaScript, Java, Python Languages

ARM Microcontrollers, AVR Microcontrollers, PIC Microcontrollers, FPGAs, NodeJS, Google **Platforms**

Firebase, Amazon Web Services, Windows, Linux, React

Design Software Altium Designer, KiCAD, OrCAD, Autodesk Fusion 360

Coursework Microprocessor Programming, Graphical Interface Programming, FPGA Programming and

Design, Nodal Circuit Analysis, Phasor and A/C Circuit Analysis, Circuit Design, Data Structures

and Algorithms

WORK EXPERIENCE

Jet Propulsion Laboratory — *Electronics Intern*

June 2019 - Present

Expected Graduation: May 2020

- Working on embedded software for the Polar Radiant Energy in the Far InfraRed Experiment (PREFIRE) CubeSat
- Wrote embedded divers for interfacing with hardware SPI and UART modules on the Vorago VA10820
- Wrote a C library for building, sending, receiving, and decoding CCSDS Space Protocol Packets in an ARM mcu
- ❖ Wrote a Python library for dynamically encoding, decoding, and handling CCSDS Space Protocol Packets
- Assisted with the development of an ARM based stepper motor driver for optics on the PREFIRE CubeSat

Cal Poly Pomona IT Client Services — Desktop Support Assistant

July 2017 – June 2019

- Assisted desktop support technicians in maintaining state equipment and working with users to resolve issues.
- ❖ Managed a support incident and request ticket queue and worked independently to resolve issues
- Lead and supported the implementation of Teamviewer for providing remote assistance to our users

Cal Poly Pomona IT Client Services — Classroom Technology Assistant

February 2017 – July 2017

- Supported media and teaching technology in classrooms across the entire campus
- Assisted IT staff with setup and installation of multimedia equipment in classrooms

Barstow Community College Performing Arts Center — Sound Tech., Lighting Tech.

January 2015 – July 2015

- Primary sound technician for all purchased venue use
- Provided assistance to college for internal venue use for college events and drama club performances

LEADERSHIP AND PROJECTS

Cal Poly Pomona Amateur Radio Club — Club Treasurer, Club President

May 2018 - Present

- Develop financial plans and manage budgets for campus radio club
- Work with members to build projects around various radio technologies we are interested in learning about
- ❖ Set goals and objectives for the club and its members

Project Lite — *Software and Hardware Developer*

September 2018 – May 2019

- ❖ Designed smart, customizable RGB accent lighting panels for residential and commercial installation
- Implemented a Google Firebase realtime database structure to allow the effects to be changed anywhere
- Selected as a finalist in the 2019 Cal Poly Pomona Bronco Startup Challenge

Web-Based School Bell Timer — Developer, Maintainer

September 2015 – December 2018

- Designed and built a web-app style synchronized countdown timer to replace old high school bell system
- Allowed for live, remote updating and scheduling of the bells for changes such as assemblies and early dismissals
- Maintained the timer for the school after graduation by request since they preferred it to the traditional bell system References available upon request.