

A. Computer Engineering

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EDUCATION

Bachelor of Science: Computer Engineering

Brigham Young University

April 2019

Provo, UT

- GPA: 3.59 / 4.00
- Relevant Coursework: Real-Time Operating Systems, Linux device drivers, Interdisciplinary Capstone Project
- Manufactured a 5 stage, pipelined, MIPS processor (Verilog, Assembly) with error handling and forwarding
- Assembled full laser tag system; implemented game in C and built custom transmitter and receiver boards

TECHNICAL SKILLS

- Python
- C/C++
- Linux
- Voice recognition software
- High language proficiency in French (reading, writing, speaking)

EXPERIENCE

Firmware Engineering Intern

ABC Corporation

April 2018 – Current

Folsom, CA

- Constructed thermal tool to map NAND workloads to power consumption (mW) for thermal engineers (Python, C)
- Resolved 8 hardware tickets from other team members by utilizing accessible resources

Electrical Engineer Intern

XYZ Company

October 2017 – April 2018

Lindon, UT

- Established proof of concept for a potential product within 2 weeks by building an MVP using Raspberry Pi, Google Voice Recognition API, and Python
- Produced key analysis of shipping data to save company over \$500,000 in supply chain costs using Google API's

Research Assistant, FPGA Design and Application

Brigham Young University

April 2017 – November 2017

Provo, UT

- Integrated a High-Level Synthesis (HLS) IP core into existing Xilinx FPGA system for real-time video filtering, developed code in C/C++ and Verilog
- Wrote protocol to interact with embedded Linux on ARM processor on Xilinx Pynq board in Python

Lab Supervisor

Brigham Young University

August 2015 – April 2016

Provo, UT

- Instructed over 800 students on how to debug C++ projects using Microsoft Visual Studio
- Emphasized logic and critical thinking by leading help sessions and one-on-one time with students

SERVICE

Co-Founder/VP of Technology, Engineers in Business Club

Brigham Young University

April 2016 – Current

Provo, UT

- Evolved club from ground, leading to recruitment of 100+ active members in 4 months
- Organized and planned 15 recruiting/networking events with representatives from Goldman Sachs, McKinsey&Co, Nuskin, and Orbital ATK
- Led team of 5 to establish club website including content development, organization, and IU/US; embc.byu.edu

Volunteer Representative

The Church of Jesus Christ of Latter-day Saints

June 2013 – June 2015

Lyon, FR

- Trained over 30 representatives leading to doubled growth in some regions
- Organized and taught 20+ workshops on leadership, relationships, and goal setting