

Caden Ellis

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Education

B.S. Computer Engineering

September 2018 - April 2022

Brigham Young University,

GPA 3.97 / 4.00

- Recipient: Brigham Young Scholarship (2018, 2021), Christensen Scholarship (2019), Marigold N. Saunders (2020)
- Member: BYU AI Club, BYU Linux Club, Phi Eta Sigma Honor Society
- Relevant coursework: Concepts in C++, Differential Equations, Linear Algebra, Algorithms and Data Structures, Discrete Math and Finite State Machines, Creating Digital Systems on FPGA's using System Verilog, Advanced Circuit Design and Analysis, Embedded Systems, Computer Architecture, Machine Learning

TMSCA Competitor for the State of Texas

- Scholarship, Texas Math and Science Coaches Association (TMSCA) "Top Gun" \$1000

University Interscholastic League Math and Science Competitor for the State of Texas

Experience

Research Assistant, Dr. Wirthlin, Brigham Young University

October 2020 – Present

- Learned to work with a large existing code base and incorporate new functions into this code base with version control
- Experience programming custom boards through a JTAG interface
- **Ask me about this experience**

Research Assistant, Dr. Warnick, Brigham Young University

April 2020 – August 2020

- Developed C code functions for a bare metal phased array radar system
- Assembled circuit boards using surface mount components

Intro to Computer Science TA, Brigham Young University

Sept 2019 – April 2020

- Teaching concepts in C++ programming
- Completing student coursework ahead of time; checking for accuracy and completion in student projects

China Global Leadership and Engineering Study Abroad

April 2019 – June 2019

- Studied aspects of Global Leadership and Agility in teams with Chinese students at Sun Yat-sen University
- Toured Engineering firms; studied time management and effective team management

Financial Secretary, Church of Jesus Christ of Latter-day Saints

Feb 2017 – Jul 2017, and Dec 2017 – Mar 2018

- Developed the method of transitioning from cash payments to electronic transfers, leading all of Argentina in this transition
- Completed two audits on the management of funds and the computer and systems protocol in the Mission Office
- Managed credit cards, paying all rents, utilities, and property tax for the 80+ apartments of the Argentina Buenos Aires North mission, meeting the deadlines of each payment

Skills

- Fluent in Spanish, learning Chinese, and strong curiosity of computer systems
- Proficient in C/C++, Python, Java, System Verilog, Linux Command Line, Linux Systems, Signal Processing
- Effective Communication with fellow co-workers and team members
- Circuit analysis and debugging