

BRIGHAM CAMPBELL

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EDUCATION

Idaho State University: Summer 2018 - Spring 2020

Undergraduate, Computer Science

- Participated in the local ACM student chapter as secretary.
- Studied basic Computer Science concepts including data structures and algorithms, and systems programming and assembly.
- Studied math relevant to Computer Science including Calculus and Linear Algebra.

Utah State University: Spring 2020 - Spring 2021, Fall 2023 - Current

Undergraduate, Computer Science (Took a leave of absence 2021-2023 to serve a religious mission)

- Participated in the Free Software and Linux Club as vice president.
- Studied C programming for electrical engineers, electrical circuits, software engineering.
- Studied discrete mathematics.

SKILLS

Languages & Frameworks: C, C++, C#, Java, Javascript, .NET Framework, ARM Assembly

Tools: MS SQL Server, PostgreSQL, Git, GNU Make, CMake, Linux, Visual Studio Code, Metasploit, PetaLinux, Buildroot

PROFESSIONAL EXPERIENCE

Software Engineer Intern; Space Dynamics Laboratory, Logan, UT; June 2023 - Present

Developed C++ code as a member of a team, on a project belonging to the US Department of Defense. Developed tests to verify our code on Xilinx development boards, on the Green Hills Integrity RTOS. Supported an embedded hardware project based on PetaLinux.

Test Engineer; Campbell Scientific, Logan, UT; May 2020 - March 2021

Tested hardware and software solutions for issues to ensure the quality of Campbell Scientific dataloggers and sensors. Worked with product managers and developers to triage critical issues.

Software Engineering Intern; Niatec, Pocatello, ID; January 2019 - December 2019

Designed and implemented improvements to Niatec's web-based 3D LIDAR viewer.

Used Microsoft toolchains(.NET or Visual Basic MVC with MSSQL or PostgreSQL backend) to create powerful web-based applications for clients or for internal use.

VOLUNTEER WORK

Served as a missionary for the Church of Jesus Christ of Latter-day Saints in Santiago, Chile from March 2021 to March 2023.

PROJECTS

Discrete Logic Breadboard Computer; Idaho State University; Fall 2019

Assembled a turing-complete computer using ICs consisting of discrete logic, bus multiplexers, adders, combinational logic ROMs, and RAM.