

BENJAMIN GLINES

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benglines.github.io/portfolio/

COMPUTER ENGINEER

SKILLS

C++, Java, Python, C,
SQLite, SystemVerilog,
Matlab, HTML, Markdown

Linux, Github, VS Code,
CMake, IntelliJ, Android
Studio, JUnit, Vivado

- Strong technical communication either verbally or written
- Able to quickly familiarize myself with complex topics
- Naturally collaborative and able to work independently

EDUCATION

Brigham Young University
Provo, Utah
Graduation - April 2022
GPA - 3.66

COURSE WORK

Completed Coursework

- Fundamentals of Digital Systems (SystemVerilog)
- Computational Data Structures (C++)
- Discrete Structures (C++)
- Intro to Embedded Systems (C)
- Circuit Analysis and Lab
- Diff Eq. and Linear Algebra
- Calculus of Several Variables
- Adv. Programming Concepts (Java, Android, SQLite)
- Electronic Circuit Design (LTSpice)
- Signals & Systems (Matlab)
- Junior Team Project (Laser Tag)
- Statistics for Engineers
- Computer Organization (RISCV)

ABOUT ME

Eager to work in a team environment to solve difficult engineering problems with my passion for designing, developing, and troubleshooting. Experienced in jumping into foreign concepts and having to quickly familiarize myself and learn at a fast pace. Highly motivated and excited to solve complex problems through collaboration with others.

EXPERIENCE

Research Assistant w/ Dr. Wirthlin @ Brigham Young University
April 2020 - Current

- Develop special CAD tools. Collaborate with faculty and students to find purposeful and flexible solutions. Wrote coherent, direct, and descriptive documentation for quick understanding and application of said tools, including tutorials/demos. Mentor other students on software engineering workflow and on specific projects.

Teaching Assistant @ Brigham Young University

January 2020 - April 2020, January 2021 - April 2021

- Planned effective ways to teach students about digital systems (ECEN 220) with TAs and professors. Explained hard-to-understand topics in simple language for students who sought deeper understanding. Troubleshooted extensively during lab hours to correct broken code and other errors, in-person and remotely.

Spacecraft Group @ Brigham Young University

Fall 2019

- Built a "femtosat" powered by an ATmega328 microcontroller on a custom designed PCB with various modules to take inertial and atmospheric measurements and to send data by radio to a ground base. Worked in a 2-person team to coordinate efforts in order to create and meet deadlines.

Volunteer Missionary @ The Church of Jesus Christ of Latter-day Saints

July 2017 - August 2019

- Led groups of 10-22 volunteers, coordinated efforts and planned events with local leaders in El Salvador and Belize, organized and conducted councils to set goals and plans. Taught abstract concepts in simple to understand terms. Became fluent in Spanish.