

Matthew Spotten

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<https://mattsbuilds.com>

<https://github.com/MattSpot10>

Summary

I'm a hard worker, and passionate in the field of electronics and computer engineering. I enjoy learning, electronic design, programming, critical thinking and problem solving. I have built several projects demonstrating skills in PCB design & debugging, embedded programming, 3d modeling, and FPGA development.

Most of all, I love people, and prize improving my character to be a kinder, better leader, suited for encouraging the people around me.

Accomplishments/Skills

- **Electrical**
 - Created hardware for an **stm32 oscilloscope** which included a custom reverse engineered firmware and software accessories.
 - Designing a **single board computer** based around an Allwinner T527 SoC.
 - Started a project building a **custom smartwatch** around an stm32l4 microcontroller. Included 3D modeling, circuit board design, and writing Embedded C drivers and firmware.
 - Designed and aided in the programming of a motorized fader and **switch board** for lighting applications.
- **Computer**
 - Implemented a server on a linux system to watch and manage continuous 3d printing.
 - Modified a 3d printer to support continuous printing.
 - Programmed applications for uses including: personal utility programs, games, and microcontroller firmware.
 - Created and currently host my own website on a raspberry pi through a cloudflare tunnel.
- **Mechanical**
 - Assisted in maintaining and repairing equipment on our family's farm.
 - Proficient in use of CAD software for 3d modeling, slicers and gcode.
 - Implemented a process to design, print and assemble 3d printed accessories.
- **Interpersonal Skills**
 - Served a mission for the Church of Jesus Christ of Latter-Day Saints in Colorado, Colorado Springs in which I learned to love the people around me.

Education

- **Bear River HS**, 2022. I studied math, science. I enjoyed sports and other extracurricular activities.
- **BYUI**, 2025-2028. Currently pursuing a degree in Electrical Engineering.

Employment

- **Teachers Assistant at BYUI**, 2026 - I currently serve as a TA for several professors at BYU-Idaho
- **Family Farm**, 2016-2022. I spent many hours in my youth working on my family's farm, moving pipe and fixing and operating farm equipment.