# MICHAEL ZAUGG

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## Education

**Bachelor of Science, Computer Engineering** Dec 2026 (Expected)
Brigham Young University – Idaho Rexburg, ID
GPA: 3.71

## Projects

**Reversed Engineered Controller (Personal Project)** **Oct. 2024 – Present**
*Project Leader*
*https://github.com/MichaelZaugg/OpenSteamController-Continued/releases*
- Led a 7-member open-source project team, helping peers in PCB design & analysis.
- Performed schematic capture, electrical rules validation, and board layout using KiCad design software.
- Applied knowledge learned in circuit analysis and low-level programming.
- Designed and prototyped custom FFC replacement cables for trackpads & haptics.

**Artillery System Project (Embedded Systems Course)** **Sept 2025**
*Semester Long Group Project*
- Programmed stepper motor drivers for the STM32 in C programming language for turret rotation and firing.
- Worked with a team of 4 people to implement physics calculations, time of flight sensors, and firing mechanism.
- Implemented concurrent FreeRTOS tasks for target acquisition, firing control, and user input.
- Helped design and model the turret mounting system using OnShape CAD.

**Robotics Team Projects (Robotics Course)** **July 2025**
*Team Leader*
- Worked as a team to complete various challenges regarding robotics and engineering.
- Programmed a weather station using an Arduino that displays temperature, humidity, and wind.
- Designed and built an automated driving robot with Arduino and off the shelf components.

## Brief Work History

**Fundamental Digital Systems TA** Sept 2025 – Dec 2025
Brigham Young University - Idaho Rexburg, ID

**Early Morning Custodian – Shift Lead** Sept 2023 – July 2025
Brigham Young University - Idaho Rexburg, ID

**Ice Cream Operator** Jan 2023 - August 2024
Tillamook County Creamery Association Tillamook, OR

## Skills

**Equipment:** Oscilloscope, Digital Multimeter, LCR Meter, Function Generator
**Electronics:** Arduino, STM32, Op-Amps, BJTs, ADCs,
**Programming:** C, C++, C#, Python, System Verilog, FreeRTOS
**Software:** KiCad, LTSpice, Logisim, Visual Studio Code, Microsoft Office, Altium
**Other:** Student Pilot, Eagle Scout