

BRADEN MEYERS

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EDUCATION

Mechanical Engineering / Brigham Young University – Provo, UT APR 2025

Awarded Full-Tuition scholarship by university. Current GPA: 3.96.

Relevant Coursework - CAD, Dynamic Systems, Machine Design, Thermodynamics, and Python

SKILLS

- SolidWorks and Autodesk
 - Python and C++
 - Microcontroller Code and Testing
 - MATLAB
 - Circuit Design and Soldering
 - 3D Print Slicing
 - Git and Linux
 - Robotic Operating System
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EXPERIENCE

Research Assistant/ BYU Field Robotics Systems Lab APR 2023 – CURRENT

- Lead group of 4 undergrads with integration of mechanical, electrical, and software design of underwater vehicle to fit requirements of the Naval Research Base using agile framework
- Designed and developed a prototype of an underwater vehicle with a budget under \$2000
- Presented research progress to faculty and to the naval research base
- Repaired and modified 3D printer along with optimizing slicer settings for watertightness

Zipline Pulley Retrieval System/ Personal Project SEP 2020 – CURRENT

- Spent over 100 hours in circuit design, PCB design, ESP32 programming, and woodworking
- Designed and modeled in SolidWorks to prototype and manufacture and 3D print parts
- Engineered a 500ft zipline with a motorized autonomous self-returning pulley system

Team Leader / BYU Engineering Robotics Competition DEC 2022

- Competed in 3 unique autonomous robotic competitions. Sophomore Team Placed 3rd in a field of PhD, Graduate, and Undergraduate students
- Built robot chassis and programmed control system for sensors and movements

Full-Time Latter-Day Saint Volunteer / Trujillo, Peru MAY 2020 – JUL 2022

- Managed and trained a team of 100 Volunteers and other volunteer leaders
- Mastered the Spanish language in less than 6 months and overcame cultural barriers to work with Peruvian people

Home Automation / Personal Project SEP 2019 – CURRENT

- Designed smart IOT electronic devices using ESP32 and Custom 3D printed parts
- Pill timer, smart alarm, racoon trap, motion activated camera, and motion alert for bike