

Tony Bridge

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EDUCATION

Brigham Young University

Apr 2028

Bachelor of Science: Mechanical Engineering

Provo, UT

GPA: 3.92 / 4.00 | **Scholarship:** Merit-Based Half Tuition Academic Scholarship

ENGINEERING EXPERIENCE

BYU Compliant Mechanisms and Robotics Group

Undergraduate Research Assistant

May 2025 - Aug 2025

- Conducted research on mechanical battery systems, analyzing structural properties and energy storage performance.
- Created detailed CAD models in Onshape to support prototype design and mechanical analysis.
- Performed tensile and material testing to evaluate component strength, energy capacity, and mechanical reliability.

BYU Rocketry Club

High Power Team: Payload Associate Engineer

Aug 2025 - Present

- Contributing to BYU's entry in IREC, developing a CubeSat-class payload for the SDL Payload Challenge.
- Designing CAD models for a satellite-compatible battery system inspired by research from the BYU CMR Lab.
- Conducting materials research to ensure structural stability of payload components during flight and recovery.

Student Launch Competitor

Sep 2024 - Mar 2025

- Collaborated in a 3-person team to design a competition rocket targeting a 1,700 ft apogee using OpenRocket.
- Laser-cut and assembled aerodynamic fins and airframe components; contributed to rocket fabrication

OTHER WORK EXPERIENCE

St. George Vacation Rentals

Aug 2021 - Aug 2022

General and Administrative Analyst

St. George, UT

- Supported general operations through payment processing and housekeeping administration.
- Tracked and reconciled expenditures and inventory records to maintain accurate budget reporting.
- Coordinated a team of seven housekeepers, organizing repair and maintenance workflows for damaged items.

Chick-fil-A

Aug 2020 - Aug 2021

Shift Lead & Chef

St. George, UT

- Directed shift operations, leading a team of employees to meet service, quality, and productivity objectives.
- Managed labor organization and resource allocation to maintain peak efficiency during high-demand hours.
- Trained and supported team members to ensure consistent performance and adherence to brand standards.

VOLUNTEER EXPERIENCE

The Church of Jesus Christ of Latter-day Saints

Jul 2022 - Jul 2024

Missionary

Mendoza, Argentina

- Led and coordinated missionary teams across multiple areas, ensuring effective collaboration and goal alignment.
- Trained and supervised new missionaries, improving performance, teaching skills, and cultural engagement.
- Dedicated full-time service to uplift individuals and communities through teaching and personal outreach.

SKILLS & INTERESTS

- Skills:** SolidWorks, Onshape, Python, 3D Printing, Arduino, Laser Cutting, Soldering, Welding, Metalworking, Google Sheets, Excel
- Relevant Coursework:** Intro to Electrical Engineering, Linear Algebra, Statics, Dynamics, Intro to Waves Optics and Thermodynamics, Mechanics of materials