

Benjamin Erickson

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EDUCATION

Brigham Young University
B.S. Mechanical Engineering

Provo, UT
Sept 2022 - April 2026

University of Utah
M.S Robotics

Salt Lake, UT
Accepted, Starting Aug 2026

EXPERIENCE

Brigham Young University - Mars Rover Team

Sept 2025 - Present

Mechanical Team Lead

Provo, UT

- Led 15-person mechanical subsystem for multidisciplinary Mars Rover competition team
- Designed and implemented interface specifications for mechanical, electrical, and software subsystems
- Planned and executed iterative design reviews to reduce risk
- Directed spiral prototyping, manufacturing and testing of rover subsystems
- Reduced rover mass by 12% through topology refinement and material optimization
- Decreased module swap time by two minutes (40% reduction) via quick-change mounting redesign

Brigham Young University

Jun 2024 - Present

Prototyping Lab Assistant

Provo, UT

- Advised and instructed students on rapid prototyping using FDM/SLA printing, CNC machining, waterjet cutting, and manual mills/lathe
- Led lab sessions for manufacturing courses, providing hands-on instruction and safety oversight
- Developed/installed Python-based QR inventory system with market-based pricing, reducing mispriced sales losses by hundreds of dollars annually
- Designed and programmed an ROS 2-based delta robot display model using a Raspberry Pi
- Built an integrated onboarding workflow linking Notion and Monday.com

Hello Dancer Photography

Jan 2023 – Present

Host

Provo, UT

- Primary customer-facing representative for photography sessions
- Managed scheduling, client communication, and on-site logistics

Brigham Young University

Jan 2024 - Mar 2024

Me En 101: Statics TA

Provo, UT

- Supported first-year engineering students by clarifying concepts and reinforcing key topics in statics
- Provided one-on-one, and group assistance, to students while fostering a positive learning environment

VOLUNTEERING

- Community service projects including food distribution for the homeless, infrastructure improvement, and construction support
- Aided in construction of enrichment structure at Columbus Zoo
- Tutored with TOPS program to help encourage STEM in middle schools

SKILLS AND ACHIEVEMENTS

- Programming: Python, C++, MATLAB, Arduino, QT Creator
- CAD/CAM: SolidWorks, MasterCam, Onshape, Ansys

- Robotics: ROS2, embedded systems, mechatronics
- Tools: Excel, Microsoft Office Suite
- Study Abroad: Singapore - Product Design and Development