

Bradley T. Safranske

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EDUCATIONAL BACKGROUND

Master of Science, Mechanical Engineering;

Arizona State University, Tempe, AZ

May 2025 | 3.98 GPA

Relevant coursework: Heat Transfer, Fluid Mechanics, Production Systems, Manufacturing Methods, Rigid Body Dynamics

Bachelor of Science in Engineering, Mechanical Engineering;

Arizona State University, Tempe, AZ

May 2024 | 3.68 GPA

WORK / PROFESSIONAL EXPERIENCE

Lecturer, Ingram School of Engineering, Mechanical Engineering Program

Texas State University - San Marcos, TX

Aug 2025 – Current

- Teach ME 1201: Introduction to Digital Mechanical Engineering and ME 1101: Laboratory in Digital Mechanical Engineering with weekly lectures and labs for first-year engineering students.
- Collaborate with faculty on curriculum development, instructional strategies, and assessment methods to support student success and program improvement.
- Contribute to departmental initiatives including preparation for ABET accreditation through coordinated coursework alignment and continuous improvement practices.

Junior Manufacturing Engineer

Phoenix Sensors - Chandler, AZ

May 2024 – Aug 2024

- Led a manufacturing team of 12 to meet production goals, maintaining quality and safety standards.
- Spearheaded a new product and manufacturing process to fulfill the first order in 50% of the allotted time.
- Streamlined manufacturing processes for a top customer, reducing makespan time by 30% through process improvements.

Engineering Intern,

Phoenix Sensors - Chandler, AZ

May 2023 – May 2024

- Evaluated, calibrated and tested various sensors (pressure, temperature, humidity, proximity).
- Drafted CAD models and technical engineering drawings using Fusion 360 based on customer specifications.
- Conducted regular First Article and First Production Inspections, identifying inconsistencies in product compliance.
- Authored detailed work instructions for new product introductions (NPIs) for OEM customers and online listings.

ACADEMIC PROJECTS

Honeywell Aerospace Technology Innovation Lab Project - FlightByte

Arizona State University

December 2024

- Directed a team of five in developing a business venture aimed at reducing food waste in airline cabins.
- Recognized as “Best Business Venture Pitch” by Honeywell executives, qualifying for the Honeywell Kickstarter.

Product Design Capstone Project

Arizona State University

May 2024

Led a team of six to design an assisted lifting bench for a two-semester culminating capstone project:

- Originated the product idea and directed a six-member team in designing and prototyping an assisted lifting bench, applying iterative design processes to meet customer needs, engineering requirements, and budget constraints.
- Utilized Python, FEA, and MATLAB to validate design concepts, ensuring structural integrity and functionality.
- Constructed a product prototype using metalworking tools, welding and machining techniques.

PROFESSIONAL SERVICE ACTIVITIES

Recording Secretary, Phi Gamma Delta (FIJI)

Arizona State University Chapter

November 2022 – November 2023

- Served on Executive Board; managed chapter communication and logistics for 100+ members.
- Oversaw documentation and event coordination with responsibility for a \$250,000 annual chapter budget.

Church Planting Resident

Hope Church Movement, Tempe, AZ / San Marcos, TX

August 2022 – Present

- Relocated to San Marcos, TX as part of a long-term Christian church planting team.
- Invested in mentorship and service, with the intent to support college-aged men in leadership and faith formation.

TECHNICAL SKILLS

- **Software & Tools:** SOLIDWORKS, Fusion 360, MATLAB
- **Engineering & Manufacturing:** Quality Assurance, FEA, Process Improvement, NPI Support
- **Other:** Public Speaking, Team Leadership, Technical Writing, Interdisciplinary Collaboration