

## Education

*Bachelor of Science in Mechanical Engineering, Taylor University*  
Minors in Mathematics, Physics & Honors  
GPA: 3.90/4.00, Dean's List

**Anticipated Graduation: May 2027**

## Work Experience

- **Mechanical Engineering Intern, Quantinuum** **May 2026-August 2026**  
Worked as a mechanical design engineer focused on electronics packaging and photonics R&D/testing at leading quantum computing company. Owned development of mechanical and pneumatic hardware of photonics testing system. Designed electronics/optical packaging solutions for R&D, testing/verification, and commercial hardware. Owned development of UHV test rig to verify components for future cryogenic and vacuum systems.
- **Mechanical Engineering Intern, Danner** **May 2025-August 2025**  
Designed SolidWorks models and drawings for mounts of autonomy hardware and drivetrain subsystem components for off-road, electric utility vehicles. Designed an in-house mobile battery charger, participated in its fabrication, and troubleshoot assembly issues. Researched and selected parts and suppliers for future vehicle iterations. Created Jira workflow to manage engineering change requests to reduce lead time for engineering department.
- **Teaching Assistant, Physics & Engineering Department, Taylor University** **August 2024-Present**  
Assisting professors with grading and facilitation/set up of labs. Leading review/teaching sessions as needed. Fostering a positive, productive, and engaging learning environment for students. Courses include University/General Physics, Statics, Thermodynamics, and Intro to Engineering.

## Undergraduate Research and Competitions

- **Undergraduate Researcher, Engineering Department, Taylor University** **February 2026-Present**  
Developing thermal management solutions for an orbital robotics system. Responsible for development of robotic arm thermal model in MATLAB. Performing design, analysis, and TVAC testing of an actively actuated thermal louver. Researching and defining environmental, thermal, and reliability requirements for robotic arm design sub-teams.
- **Hovercraft Competition** **February 2025-May 2025**  
Responsible for design of thrust and lift subsystem components, using Fusion 360 and AutoCAD. Collaborated with electrical team members to develop hardware integration, wire harness routing, and component mounting solutions. Performed engineering analysis to optimize selection of motor/propellor combination and inform system design. Troubleshoot electrical and mechanical manufacturing and assembly issues. End result of competition was second place finish. At the conclusion of the project, gave a technical presentation.

## Leadership

- **Honor's Guild Cabinet** **September 2023-Present**  
Working alongside University Faculty, staff, and students to plan academic events for current Honor's Guild students. Coordinating and facilitating academic speaking events for both university facility and guest speakers. Served as a student leader for study abroad in Italy (J-Term 2025)

## Skills

- *Mechanical Design:* OnShape, Fusion 360, AutoCAD, SolidWorks, GD&T
- *Simulation/Analysis:* Ansys Fluent, Autodesk FEA & CFD, EES
- *Programming:* MATLAB/Simulink, C/C++ Python, Mathematica, Jira, Excel, Minitab
- *Manufacturing/Prototyping/DFM:* 3D Printing, CNC Machining, Welding, Laser/Plasma Cutting, Waterjet, Sheet Metal