Skills and Qualifications

Solidworks, OnShape, MATLAB, Data Analysis, Microsoft Office, Communication, Machining, Additive Manufacturing, Analytical Thinking

Education

Northern Arizona University, Steve Sanghi College of Engineering Degree: B.S. Mechanical Engineering GPA: 3.06 / 4.00

Relevant Work Experience

Kenautics Inc.

Position: Mechanical Engineering Intern

- Designed and developed an iteration of Kenautics' buoy using SOLIDWORKS, using previous model for reference of upgraded parts.
- Learned GD&T and produced engineering drawings for manufacturing.
- Conducted controlled drop tests at varying heights to evaluate durability and water impact resistance.

Position: Kenautics, Mechanical Engineering Intern

- Led the redesign of the buoy to meet company and customer requirements.
- Drafted detailed engineering drawings following GD&T standards.
- Introduced additive manufacturing to produce 3D prototypes, reducing costs and expediting bench testing.

Position: Kenautics, Mechanical Engineering Manufacturer

- Refined the buoy model to align with updated engineering specifications. •
- Created precise GD&T-compliant drawings for manufacturing.
- Utilized additive manufacturing to validate tolerances and improve visual representation for public venues.

Cline Library's MakerLab

Position: Creation Commons Assistant

- Assist patrons with 3D printer troubleshooting, CAD software, and project planning.
- Collaborate with students to prototype and fabricate custom designs using 3D printers.
- Developed expertise in quick thinking, 3D print fabrication, and communication skills.

Projects

Marine Energy Collegiate Competition

Position: CAD & Manufacturing Lead

- Used skills from previous internship experiences to design and manufacture an open water energy generator.
- Obtained and managed a \$20,000 budget, ensuring efficient use of materials and resources.
- Communicated with team members on progress of design and manufacturing of generator design.
- Partnered with university clubs and public clubs to bring awareness of a greener economy to the states.

Onewheel VESC Conversion

- Engineered a custom Plug-in Electric Vehicle by converting a Onewheel XR, leveraging open-source resources. •
- Designed and fabricated a custom controller housing and other components using additive manufacturing and precision machining.
- Integrated and fine-tuned a VESC-based motor controller, optimizing performance and ride dynamics.

Awards and Achievements

- Earned the rank of Eagle Scout (2019), demonstrating leadership, project management, and community service.
- Achieved 4th Degree Black Belt in Karate (2022) and Blue Belt in Brazilian Jiu-Jitsu, showcasing discipline, dedication, and teaching experience.
- Member of the NAU ASME, NAU Judo, NAU Energy, & NAU Hiking club.

Location: Flagstaff, Arizona Graduated: May 2025

Location: San Diego, California

Duration: May 2022 – August 2022

Location: Flagstaff, Arizona Duration: March 2022 – May 2025

Location: Flagstaff, Arizona

Duration: August 2024 - May 2025

Duration: August 2023 - Present

Duration: May 2024 - September 2024

Duration: May 2023 – August 2023