Andrew Estrada

andrewgestrada@gmail.com � (661) 299-8302 � andrewgestrada.com

EDUCATION

Northern Arizona University

Mechanical Engineering

- NAU Founders Gold Scholarship
- Member of, Formula SAE, SAE Baja, Space Jacks, and ASME

WORK EXPERIENCE

Parker-Meggitt- US Safety Systems

Manufacturing Engineering Intern

- Designed and implemented innovative fixtures to enhance process safety and ergonomics, resulting in increased efficiency, productivity, and adherence to LEAN manufacturing
- Collaborated with design engineers to conduct failure analyses and implement effective corrective actions
- Provided invaluable assistance to production personnel by updating and clarifying work instructions, optimizing production processes and ensuring smooth operations

Accu-Glass Products, Inc.

Engineering Intern

- Responsible for operating Haas CNC Mills and Lathes to complete components for capital projects
- Constructed 3D CAD models and technical drawings for manufacture
- Aided in process for work holding and manufacturing methods
- Initiated precision quality control and effectively took precise measurements to ensure effective tolerance for highaccuracy air to high and ultra-high vacuum parts

RELEVANT PROJECTS

- Formula SAE: Northern Arizona University
 - Front Pushrod Suspension Lead, responsible for design, validated geometry within LOTUS Suspension Shark, utilized ANSYS to simulate driving conditions, collaboration with chassis team for successful integration
 - o Manufactured Front Pushrod Assembly utilizing CNC Mill and Lathe, programming with Mastercam
 - Team Test Engineer responsible for test planning, data acquisition and analysis (DAQ), evaluating design choices and vehicle dynamics against lap simulations to suggest car setup changes.
 - o Key asset in founding a Formula SAE team at Northern Arizona University for spring 2024 competition
 - O Sponsor relations manager, new member outreach coordinator, website developer and social media manager

NASA Student Launch Competition: Northern Arizona University

Team invited to compete in Student Launch Competition upon winning FNL competition. Tasked with the construction of a rocket carrying an automated camera system capable of imaging the immediate landing vicinity

- Responsible for design and testing of GPS subsystem, while aiding Avionics Team with troubleshooting, integration and packaging
- o Preformed performance simulations of rocket using Open Rocket
- o Preformed analysis and optimization of stage ejection and methodology
- Serving as safety officer to ensure safe protocol, and rule compliance.
- Eagle Scout Project: Boy Scouts of America
 - Conceptualized community service project in partnership with the city of Santa Clarita, California, over a course of one year, fundraised, designed utilizing CAD, presented to local businesses and led 50+ volunteers in the renovation and beautification of Haskell Canyon Open Space

SKILLS & INTERESTS

- Technical Skills: SolidWorks; ANSYS; Fusion 360; Inventor; MATLAB; Microsoft Office Suite; Mastercam;
- Manufacturing Skills: Haas 3-Axis CNC Mill and 2 & 4-Axis Lathe Experience; FDM 3D Printing; LSSS
- Interests: Mountain Biking; High Power Rocketry; Sound Systems and Acoustics; Cars; Backpacking; Travel

July 2023 – Aug. 2023

May 2022 - Aug. 2022

Santa Clarita, CA

Simi Valley, CA

Fall 2022 - Spring 2023

April 2023 - May 2024

Fall 2019