

# Andrew Estrada

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## EDUCATION

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### Northern Arizona University

*Mechanical Engineering*

May 2024

Flagstaff, AZ

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

## WORK EXPERIENCE

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### Parker-Meggitt- US Safety Systems

Jul 2023 – Aug. 2023

*Summer Intern*

*Simi Valley, CA*

- 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.

May 2022 – Aug. 2022

*Summer Intern*

*Santa Clarita, CA*

- 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 high-accuracy air to high and ultra-high vacuum parts

## RELEVANT PROJECTS

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- **Formula SAE:** *Northern Arizona University* Fall 2021 - Present
  - 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
  - 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.
  - Key asset in founding a Formula SAE team at Northern Arizona University for spring 2024 competition
  - Sponsor relations manager, new member outreach coordinator, website developer and social media manager
- **Pressure Gauge Testing Fixture:** *Parker-Meggitt* Summer 2023
  - Collaborated with production floor to enhance safety and compliance of pressure gauge testing procedure
  - Designed innovative testing fixture capable of cycling multiple gauges simultaneously, including the creation of detailed CAD models and assembly drawings.
  - Engineered a safety shield to protect personnel during testing processes, prioritizing safety standards.
  - Worked closely with Tool Design Engineers to validate the fixture's design and facilitate its fabrication.
- **Eagle Scout Project:** *Boy Scouts of America* Fall 2019
  - Conceptualized community service project in partnership with the city of Santa Clarita, California, over a course of one year, fundraised and presented to local businesses and led 50+ volunteers in the renovation and beautification of Haskell Canyon Open Space
  - Created technical drawings for the trail kiosk and trail signs utilizing Autodesk Inventor

## SKILLS & INTERESTS

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- **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; Understanding of Lean and Six Sigma Manufacturing Methodology
- **Interests:** Mountain Biking; High Power Rocketry; Sound Systems and Acoustics; Running; Backpacking; Travel