

Joshua Isaac

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Skills

- SolidWorks
- MS Office
- Mill/Lathe/CNC
- Process Improvement
- Problem solving
- GD&T
- Simulation's experience
- MATLAB/Arduino
- Leadership

Objective

Mechanical engineering undergraduate with heavy focus on the aerospace industry. Seeking internship experience in design, fabrication, optimization, and systems testing to determine the best engineering solution.

Education

NORTHERN ARIZONA UNIVERSITY | FLAGSTAFF, AZ

EXPECTED DEC 2022

- B.S. Mechanical Engineering | GPA: 3.23
- Spring 2021 Dean's list recipient
- Relevant coursework: machine design, material science, manufacturing processes and fluid mechanics

Experience

UNDERGRADUATE RESEARCHER | NORTHERN ARIZONA UNIVERSITY

2020 - CURRENT

- Research focused on multifunctional composite materials, focused on energy storage in structural components
- Performed mechanical testing to find relation between electrolyte absorption and overall strength
- Led electrochemical characterization of multifunctional structural supercapacitors
- Modeled carbon fiber mold with SolidWorks and created drawings for mold fabrication

LUBE TECHNICIAN | JIFFY LUBE

2016 - 2019

- Led a five-person team while performing services to customer vehicles leading to decreased wait time
- Development of communication skills to effectively communicate with customers and team members
- Trained individuals on company process and policy which led to proficient team members

Extra-Curricular Activities

SOCIETY OF AUTOMOTIVE ENGINEERS (SAE)

2020-CURRENT

- Simulated Baja vehicle front suspension geometry with Lotus Suspension Analysis software
- Designed upright for the front-end based on finite element analysis studies
- Set up simulations for stress analysis on upright

AMERICAN INDIAN SCIENCE AND ENGINEERING SOCIETY MEMBER

2019-CURRENT

- Guided undergraduates in their professional development of networking skills
- Utilized university network to direct incoming students to resources within fields of interests

HIGH POWERED ROCKET CLUB

2020-2020

- Led the CAD design team to model a rocket for design competition
- Generated reports to meet competition criteria
- Elected Safety officer