

Erin M. McEneny

emmcenen@ncsu.edu • (919) 710-0884
<https://erinmcenenportfolio.wordpress.ncsu.edu/>

OBJECTIVE

Seeking a full-time Mechanical Engineering job in the research and/or consulting field starting in Summer/Fall 2022.

EDUCATION

NORTH CAROLINA STATE UNIVERSITY, Raleigh, NC

August 2018 – May 2022

- Bachelor of Science, Mechanical Engineering
- Minor: Graphic Communications
- Overall GPA: 3.55/4.0
- Major GPA: 3.64/4.0

WORK EXPERIENCE

General Dynamics Mission Systems, Greensboro, NC

Mechanical Engineering Intern

Jan 2021 – June 2021

- Organized packing and shipping procedure for the project team utilizing Solidworks and Creo models, presented ideas and findings to the team
- Assisted in designing and testing parts/assemblies for the product, testing in both FEA software and by hand
- Led and participated in drawing reviews, helping the company to uphold ASTM drawing standards

ACADEMIC PROJECTS

Engineering Dynamics: Rube Goldberg Machine

Rube Goldberg Machine

Spring 2020

- Engineered an 8 step Rube Goldberg Machine using dynamic principles to turn on a lamp
- Utilized online resources to collaborate with group members virtually and accomplish our goal
- Communicated our research and development process to faculty and students through a presentation

Vibrational Analysis of Turbofan Jet Engine Noise

Noise Analysis

Fall 2020

- Examined noise produced by jet engines at a nearby airport using MATLAB software in collaboration with a partner
- Investigated previous work done on the effect of jet engine noise at airports in order to identify potential health concerns associated with it, displayed findings in a literary review
- Illustrated results and conclusions in a presentation given to faculty and students

Senior Design Project

Hybrid UV Filter

Fall 2021- Spring 2022

- Designing a pool filter for a sponsor company that combines a mechanical filtration system with UV disinfection light
- Collaborating with a team of 5 Mechanical Engineering students to capitalize on everyone's strengths and interests
- Responsible for CAD work and FEA testing for structural and fluid analysis, treasurer for the group

SKILLS

Software: SolidWorks (Certified – Associate), Creo, ANSYS, MATLAB, Microsoft Office, Zoom, Skype
Communication: Presentations, lab reports, spreadsheets, literary reviews
Volunteer: Miracle Network – Dance Marathon, Reading is Fundamental Foundation, Habitat for Humanity
Involvement: Kappa Kappa Gamma Fraternity, Student Wolfpack Club

RELEVANT COURSEWORK

Statics, Thermodynamics I & II, Solid Mechanics, Dynamics, Applied CADD & Geometric Conventions, Probability & Statistics, Principles of Electrical Engineering, Fluids, Vibrations, Heat Transfer, Strength of Mechanical Components, Modern Manufacturing Processes, Principles of Automatic Controls

LEADERSHIP

Kappa Kappa Gamma, Risk Management Chair

Nov 2019 – Nov 2020

- Responsible for the safety of 160 members at all chapter events
- Detailed logistics for all events using Eventbrite and Excel software
- Worked alongside other officers through the beginning of a pandemic to ensure the chapter's success as a whole