Career Aspiration

Seeking to obtain an internship or Co-Op in the field of Mechanical Engineering for the summer of 2023

Education

Youngstown State University (YSU) | Youngstown, OH

College of Science, Technology, Engineering, and Mathematics (STEM)

Rayen School of Engineering - ABET Accredited

B.E. in Mechanical Engineering

Minor: Mathematics

Overall GPA (4.00 Scale): 3.88

Relevant Coursework

Fluid Dynamics, Machine Design, Heat Transfer, Dynamic System Modeling, Machine Design Lab, Fluid Dynamics Lab

Work Experience

Raytheon Technologies Collins Aerospace Manufacturing Engineering Inter | Minneapolis, MN

May 2023-August 2023

Expected Graduation: May 2024

- Summer 2023 intern within the manufacturing team of aviation components
- Commercial and military aviation

ASTM International Washington Internships for Students of Engineering Intern | Washington, DC

June 2022-October 2022

- Experienced how engineers can contribute to the legislative process, regulatory decision-making, and science and technology policy
- Research reported and presented on space policy related to orbital debris solutions across the federal government.
- Interviewed experts from NGOs, ASTM, NASA, DOS, NOAA, DOD, and Congress to draft a public policy paper and recommendations

YSU Rayen School of Engineering Teaching Assistant

January 2022-Present

- Assist first-year engineering students in engineering computing with MatLab and Excel. Grades and guides students through assignments.
- Hold office hours for six hours a week where students can get help on homework and projects.

YSU Rayen School of Engineering Undergraduate Research Assistant

July 2021-Present

- Design and implement a development program for first-year engineers
- Liaison between students and faculty. Assist in programmatic planning and organization of events and resources.

Significant Projects

YSU Offroad Vehicle Baja Team

October 2022-Present

- Currently researching electrical system upgrades and components necessary to power subsystems.
- Member of the business presentation team

Crane Boom Design Project, YSU

October 2022-December 2022

- Worked as a team to design a crane boom given dimension criteria and loading
- Utilized stress calculations, Solidworks, and Ansys to verify design results

YSU Rayen School of Engineering Engineers Week Coordinator

February 2022-Present

- Coordinates a department-wide engineers' week celebration with faculty and students. Collaborates with six engineering major organizations to plan five different engineering challenge competitions, seven social/professional events, and a food drive for the Mahoning Valley Rescue Mission. Developed a custom website that displays information and shows current leader progress. Contacted and received over \$10,000 worth of sponsorships from various companies.
- Organized an Industry Forum event with six local companies to better inform students about the benefits of coops and internships. Coordinated prizes, sign-ups, marketing, sponsorships, supplies ordering, and point tracking.

Pennsylvania Junior Academy of Science

2015-2020

- Completed in-depth scientific research in several fields and presented it to a panel of judges. Received nine 1st awards and four perfect scores.
- Named the Outstanding Junior Presenter during my 4th year participating and received a \$12,000 scholarship for research on how temperature affects impact attenuation, specifically related to football helmets.

Leadership Experience

Varsity Assistant Football Coach | New Wilmington, PA

June 2020-Present

- Over 450 volunteer hours per season | Coached in one PA state championship and two district championships
- Assistant to the head coach, running backs, defensive backs, junior varsity
- Coached and developed varsity level players. Responsible for in-game adjustments and communication.
- Assist in all operations of the varsity football program. Coordinate video/game-day operations, travel, and logistics. Developed processes to manage personnel, equipment purchases, and distribution. Created spreadsheets to coordinate practice and post-game analysis. Established communication with parents and media outlets. Coordinated salute to service night to honor 20 veterans.

Student Organizations

YSU American Society of Mechanical Engineers | Officer-Secretary YSU Tau Beta Pi | President Elect