

JOSIAH ZURICK

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JOB TARGET: Entry Level Engineer

Driven and enthusiastic mechanical engineering senior with two successfully completed internships. Seeking to obtain a position in biomedical engineering or mechanical design in production to further develop my skills and experience while adding value to the employer.

Skills and Programs

- 3D SolidWorks
- 3DSlicer
- TKSolver
- LaTeX
- 2D AutoCAD
- 3D Printing
- MATLAB
- CNC Milling
- Servant Leadership
- Communication

EDUCATION

Cedarville University (ABET Accredited)

Bachelor of Science Mechanical Engineering; GPA: 3.2

Minor: Biblical Studies

Honors: Leadership Scholarship; Excellence Scholarship; Truss Competition (Prediction of Failure Location)

Cedarville, OH

05/2024

ACADEMIC EXPERIENCE

Elmer W. Engstrom School of Engineering & Computer Science

Senior Design Project: Customizable Pilot Helmet (Team Leader)

Cedarville, OH

04/2022–05/2024

- Led team to successfully complete tasks under advising from Wright Patterson Air Force Base
- Completed SolidWorks segmentation analysis of CT scans of human heads for calculating mass properties.
- Wrote report to be published to the Journal of Biomedical Science for further research within the field.
- Presented project to 30 experts in the field, including Dr. Zhiqing Cheng and Dr. Jacqueline Paver

5-in-1 Exercise Equipment Modeling

11/2021–03/2022

- Utilized SolidWorks as a team to model the 5-in-1 Lower Body Trainer designed by Dr. David Peterson to successfully be released as a marketable product
- Designed several pieces and helped brainstorm some of the adjustments needed in the newest model

Truss Competition Team

09/2021–10/2021

- Collaborated with a team of 3 to fully engineer a truss out of HDF with the goals of efficiency and max load distribution in mind
- Operated with 2D AutoCAD, truss simulations, and laser cutter to perform the manufacturing of the truss awarding a correct prediction of failure location.

WORK EXPERIENCE

Infinite Motion Control

Mechanical Engineering Internship

Cedarburg, WI

05/2023–08/2023

- Reduced the cost of an assembly by ~25% considering design for assembly and manufacturing
- Worked with a team to make mechanical design choices for loader and stacker machines to achieve the needs of the customer
- Communicated with vendors to pursue new applications increasing efficiency of assembly

Mercury Plastics LLC

Internship

Middlefield, OH

05/2019–08/2019

- Increased knowledge about the production process as experiences varied upon positive performance
- Used several measuring instruments to examine product consistency and increase quality assurance

ACTIVITIES

Youth Group Leader | Intramural Sports | Nursing Home Volunteer | Future City Team Member