Daniel Ormsbee

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SUMMARY

Mechanical engineering & molecular biology student with a record of exceptional achievement, a reputation for innovative thought, analytical/critical thinking, and a passion for hard work. Additional skills include:

- Immunology
- Organic Chemistry
- Nanotechnology in Medicine
- Micro Pipetting
- Serial Dilutions
- Liquid Chromatography
- Biochemistry
- Python
- Microsoft Excel

EDUCATION

Cedarville University - *an ABET-accredited comprehensive university in southwestern Ohio serving more than 5,000 undergraduate and graduate students*

BS Mechanical Engineering; GPA: 3.50   Anticipated 05/2026

BS Molecular Biology; GPA: 3.60

<u>Honors</u>: Dean's List (all semesters); President's Scholarship

EXPERIENCE

Work Experience:

Campus Experience: Student Government Association (SGA)   Cedarville, OH

SGA Vice President (10-20hrs/week)   08/2023–05/2024

- Co-led an organization of 36 people with a yearly budget of over $100,000.
- Responsible for more than 60 projects and events under SGA's purview.
- Met weekly with the Student Life Programs VP to address and communicate issues and areas of concern on behalf of the student body.
- Spoke to 4,000 undergraduate students on a weekly to bi-weekly basis as a part of the campus chapel programming.

Valent Biosciences   Osage, IA

Process Engineering Intern (40hrs/week)   05/2023–08/2023

- Designed and executed a $1-2 million value-add (up to 10 million with capital investment), process-improvement parametric study to determine parameters influencing separation resolution in proprietary, production ion-exchange columns that involved over: 40 elutions, 1000 elution samples, and 500 HPLC samples.

Projects and Publications: Cedarville, OH

NASA Student Launch Team   08/2021–Present

- Volunteered with the NASA student launch team by: designing a 3D printed test bed for camera extension and leveling mechanism and assisting with the documentation of parts, masses, and finances using Excel.

"Domestication Syndrome in Animals: Evaluating the Trajectory of Domestication Syndrome Research"

- Wrote and published a 7 page, peer-reviewed journal article on domestication syndrome with over 60 sources and presented a conference poster.

AI Peptide Folding Comparison Research with Dr. Mohan Pereira

- Using ChimeraX software and AlphaFold/ColabFold machine learning models to compare experimental data with machine learning predictions.
- Integrating experimental data provided by Dr. Mohan Pereira and his research colleagues.

Journal Article Web-scraper, Summarizer, and Prioritize (python)

- Built a python application which collects, compiles, analyzes, and summarizes journal articles from a given publisher in my inbox. Uses Gmail API, bs4, scrapy framework, Langchain, Open AI LLMs, and Pinecone.
- Currently two-thirds complete.

ACTIVITIES OF NOTE

- Pole vault record holder and state-level competitor, 2021
          (Broke the 56-year-old school record and finished 15th in the state)
- Excellent rating, Class A Solo Competition (euphonium) 2021