

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 LEO manufacturing and engineering.

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| <ul style="list-style-type: none">• Executive Decision Making• Project Management• Concept Distillation | <ul style="list-style-type: none">• Fermentation/Bioprocessing• Process Engineering• Liquid Chromatography | <ul style="list-style-type: none">• Data Analytics and Automation• Data Management• Python, Microsoft Excel |
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EDUCATION

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

BS Mechanical Engineering; GPA: 3.60 ; BS Molecular Biology; GPA: 3.60

Anticipated 05/2026

Honors: Dean's List (all semesters); President's Scholarship

EXPERIENCE

Work Experience:

Nutrafuel Bioworks LLC

Cedarville, OH

CEO - Founder

08/2024–Present

- Wrote over 3 Department of Energy voucher and grant applications, totaling up to \$350k of support.
- Developed a billion dollar, scalable company business plan, business model, and technology platform.
- Created and communicated company vision, mission, and values with partners, customers, and investors.
- Built company website and created marketing and technical deliverables.

Wake Forest Institute for Regenerative Medicine (WFIRM)

Winston-Salem, NC

NIH Funded Summer Scholar

05/2024–08/2024

- Scaled-up and characterized Urinary Stem Cell (USC) cultures in bioreactors for the extraction of exosomes as a future therapeutic for Chronic Kidney Disease (CKD).
- Presented research at NIH NIDDK undergraduate conference at the University of Virginia.

Campus Experience: Student Government Association (SGA)

Cedarville, OH

Student Body Vice President

08/2023–05/2024

- Co-led an organization of 36 people with an annual budget of over \$100,000.
- Executed more than 60 projects and events under SGA's purview, serving 5000+ students.
- Proposed, organized, and led a restructuring/optimization effort for SGA which included writing new procedures, evaluating position eliminations, and reallocating financial and human resources.
- Communicated key metrics and student outcomes to university vice-presidents and directors.

Valent Biosciences

Osage, IA

Process Engineering Intern (40hrs/week)

05/2023–08/2023

- Designed, executed, and presented to management a \$1-2 million value-add, process-improvement parametric study to determine parameters influencing separation resolution in production ion-exchange columns that involved over: 40 elutions, 80 Excel data dashboards, 1000 elution samples, and 500 HPLC samples.
- Excelled at Design of Experiments (DOE) and learned Statistical Process Flow.

Projects and Publications:

Cedarville, OH

Mechanical Engineering Labs

08/2021–Present

- Wrote twelve, 40+ page engineering reports covering projects & experiments in: steady-state heat transfer, vibration modes of rigid bodies, 3D stress analysis of pressure vessels, refrigeration systems, pipe flow, and heat treatment of engineering alloys.

"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

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

- Built a Python application which collects, compiles, analyzes, and summarizes academic journal articles from a given publisher in your inbox. Uses Gmail API, bs4, Scrapy framework, Langchain, Open AI LLMs, and Pinecone.