

# Jacob Cieply

Ann Arbor, MI 48103

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## Objective:

Contribute to an exciting team in energy and sustainability as an intern during the summer of 2026.

## Engineering Experience:

- Remora**, Livonia, MI, *Controls Engineer II, Controls and Mechatronics Consultant* **Dec. 2020-Aug. 2025**  
**July 2021-Aug. 2025**
- *Controls Engineer II*
    - Tested hardware, software, and electronics on benches, dynamometers, and on-road
    - Assessed system process performance and automated evaluation
    - Selected and implemented sensors for lab-grade and automotive applications
    - Analyzed drive cycles for device performance predictions
- EMBiR Lab Bitebot**, Ann Arbor, MI, *Researcher* **Sept. 2025-Present**
- Developing electrical and software architecture

## Education:

**University of Michigan**, CoE and SEAS, Ann Arbor, MI **Aug. 2025-December 2027**  
M.S.E Mechanical Engineering and M.S. Sustainable Systems  
Relevant Courses: Sustainable Energy Systems, Intro to GIS, Energy Markets and Politics

**University of Michigan**, College of Engineering, Ann Arbor, MI **May 2021**  
B.S.E. Mechanical Engineering, Minor in Music  
Relevant Courses: Finite Element Analysis (FEA), Data Structures and Algorithms, Design for Manufacturing  
GPA: 3.6

## Leadership & Mentorship Experience:

- Michigan Concrete Canoe Team**, Ann Arbor, MI, *Captain, Hull Design Lead* **Sept. 2017-June 2021**  
**April 2020- June 2021**
- *Captain*
    - Led a team of 30 students to design and manufacture a concrete canoe
    - Guided the team to 6<sup>th</sup> place finish in the international competition
    - Integrated novel techniques such as scale hydrodynamic testing to verify design
- Melatonin Testing Kit**, Ann Arbor, MI, *Entrepreneurial Lead, Mentor, Intern* **Sept. 2019-July 2021**  
**May 2021-July 2021**
- *Entrepreneurial Lead (NSF I-Corps)*
    - Interviewed >100 stakeholders in the circadian sleep market
    - Built a business model for at-home circadian phase testing based on value proposition

## Research Experience:

- UM Alliance Battery Materials**, Ann Arbor, MI, *Researcher* **July 2025-Present**
- Review of literature concerning rare earth usage, mining, and processing
  - Modeling of ore processing requirements based on chemical and physical characteristics

## Volunteering Experience:

- University of Michigan Campus Farm Club**, Ann Arbor, MI, *Volunteer* **Sept. 2025-Present**
- Harvesting crops for residential dining
- Green Things Farm Collective**, Ann Arbor, MI, *Volunteer* **July 2024-Present**
- Harvesting crops and reducing agricultural waste

## Skills:

**Programming Languages:** C++, HTML, Java, Ladder Logic, LaTeX, MATLAB/Simulink, Python, R, SQL

**Certificates:** Certified SolidWorks Associate

**Programs:** ADAMS, Altium 17, ArcGIS Pro, Autodesk EAGLE 9, Autodesk Fusion, COMSOL, Cura, Git, Hyperworks, LTspice, MAXSURF Stability Suite, Microsoft Office, Microsoft Visual Studios, MSC NASTRAN, QGIS, Rhinoceros 6, Siemens NX 11, SolidWorks, Sysmac Studios, VeSys

**Manufacturing:** chemical lab, lathe, mill, respirator, welding (MIG/TIG)