

Jacob Cieply

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Objective:

Full time position in controls or mechatronics.

Engineering Experience:

Remora , Livonia, MI, <i>Controls Engineer, Controls and Mechatronics Consultant</i>	Dec. 2020-Present
<ul style="list-style-type: none">• <i>Controls Engineer I</i><ul style="list-style-type: none">○ Designing and implementing low and mid voltage harnesses○ Working with harness manufacturers and expanding relationships with suppliers○ Delineating error cases and ensuring appropriate corrective actions○ Researching and selecting sensors and actuators○ Creating software to integrate external controllers○ Testing hardware, software, and electronics on benches, dynamometers, and on-road• <i>Controls and Mechatronics Consultant</i><ul style="list-style-type: none">○ Devised and implemented telemetry for prototype testing	July 2021-Present
Michigan Concrete Canoe Team , Ann Arbor, MI, <i>Captain, Hull Design Lead</i>	Sept. 2017-June 2021
<ul style="list-style-type: none">• <i>Captain</i><ul style="list-style-type: none">○ Led a team of 30 students to design and manufacture a concrete canoe○ Guided the team to 6th place finish in the international competition○ Managed sub-team leads on the final product and sub-team goals• <i>Hull Design Lead</i><ul style="list-style-type: none">○ Designed and analyzed a series of boats using naval architecture software○ Taught CAD and CAE to model and analyze the canoe to 5 students	April 2020- June 2021
Melatonin Testing Kit , Ann Arbor, MI, <i>Student Researcher, Intern, Mentor</i>	April 2018-April 2020
<ul style="list-style-type: none">• <i>Entrepreneurial Lead (NSF I-Corps)</i><ul style="list-style-type: none">○ Interviewed 110 stakeholders in the circadian sleep market○ Built a business model for circadian phase testing• <i>Mentor</i><ul style="list-style-type: none">○ Tutored student on CAD, Arduino IDE, and circuitry basics• <i>Intern</i><ul style="list-style-type: none">○ Created software to interact with sensors and motors○ Designed multiple printed circuit boards to control the testing device	Sept. 2019-July 2021 May 2021-July 2021
	Aug. 2020-April 2021
	May 2020-Aug. 2020

Education:

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

Certificates & Awards: Certified SolidWorks Associate, Forklift Certified
Programming Languages: Arduino, C++, HTML, Java, MATLAB/Simulink
Programs: ADAMS, Altium 17, Autodesk EAGLE 9, COMSOL, Cura, Github, GitLab, Hyperworks, MAXSURF Stability Suite, Microsoft Office, Microsoft Visual Studios, MSC NASTRAN, Rhinoceros 6, Siemens NX 11, SolidWorks, VeSys
Manufacturing: chemical lab, general shop machines, lathe, mill, respirator, structural lab, welding (MIG/TIG)
Languages: French (beginner-intermediate)