

OLIVER VAN NOTE

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EDUCATION

University of Michigan

Bachelor of Science in Aerospace Engineering

Computer Science Minor

Engineering Honors Program

GPA: 3.96/4.00

Ann Arbor, MI

April 2025

PROJECT EXPERIENCE

University of Michigan

Solar Energy and Self-Powered Wireless Systems

Ann Arbor, MI

January 2022 - April 2022

- Collaborated with a team to design, build, and test a wirelessly networked product that was self-powered by solar cells
- Studied solar energy collection and storage, electrical circuits, micro-controllers, wireless technology, and energy/power
- Conducted hands-on experiments with circuits, solar cells, energy storage, micro-controllers, and wireless technology
- Designed, built, and tested a device using GPS to automatically track the sun to efficiently generate solar electricity
- Presented device to engineering faculty and students through formal presentation and hands-on demonstrations

Michigan Aeronautical Science Association (MASA)

Aerodynamics & Recovery Subteam Member

Ann Arbor, MI

September 2021 - Present

- Completed "Rocketry 101" course Fall 2021 covering the basics of aerospace engineering and mechanics
- Assist with the design and build of a liquid-bipropellant rocket as a member of the aerodynamics and recovery subteam
- Design and analyze rocket components using CAD and CFD software for fabrication and installation on rocket
- Utilize multiple machining tools including drill press and band saw to successfully machine rocket components

WORK EXPERIENCE

Mohs Widder Paradise - Attorneys at Law

File Clerk

Madison, WI

Summer 2022

- Developed C++ computer programs to organize and sort 15,000 client files by client name, attorney, and date
- Processed files based on categorical data from the computer generated lists and purged obsolete files

Hawks Landing Golf Club & Pool

Lifeguard

Madison, WI

Summer 2019, 2021, 2022

- Enforced facility policies and administered first aid when necessary to support safety of patrons
- Maintained facilities and pool systems to ensure cleanliness and uninterrupted operation

West Madison Little League

Umpire

Madison, WI

Summer 2017, 2018, 2019, 2021, 2022

- Officiated baseball games by ensuring all rules were followed, resolving disputes, and executing decision-making to ensure games ran smoothly and fairly
- Managed, coordinated, and mediated players, coaches, and fans by asserting authority to ensure good sportsmanship

Wisconsin IceCube Particle Astrophysics Center, University of Wisconsin

Intern (unpaid)

Madison, WI

January - March 2021

- Collaborated with the South Pole IceCube Neutrino Observatory astrophysicists to learn about neutrinos
- Created educational app for high school students to learn about neutrinos and the IceCube project

LEADERSHIP

Tau Beta Pi Engineering Honor Society

Member

Ann Arbor, MI

December 2022 - Present

- Volunteered to assist in running a daylong Cub Scouts program by leading a variety of engineering projects
- Led a group of elementary school students in designing and testing a mock-up lunar lander through the MindSet program

Sigma Gamma Tau Aerospace Engineering Honor Society

Member

Ann Arbor, MI

December 2022 - Present

- Organized study groups and tutoring sessions to enhance learning and understanding of subject matter
- Delivered a presentation to aerospace faculty on detecting and analyzing interference in space systems research

COMPUTER SKILLS

Languages: C/C++, MATLAB, HTML, Java/JS, Python

Software: Microsoft Office, Siemens NX, S.T.A.R. CCM+

Platforms: Windows 10, Linux/Unix