

Jacob A. Unser

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SUMMARY

Fourth-year student pursuing a mechanical engineering major and electrical engineering minor with three summers of internship experience and three semesters of enterprise experience. Looking for a summer 2024 internship or co-op.

EDUCATION

Michigan Technological University
Mechanical Engineering | Electrical Engineering Minor
December 2024 Expected Graduation / GPA: 3.76

SKILLS

MATLAB
Solidworks
Siemens NX
Autodesk Inventor
Simcenter AMESim
NI Multisim
Microsoft Excel
Google Suite

INTERSHIP EXPERIENCE

Freedom Technologies LLC — Mechanical Engineering Intern

MAY 2023 - AUGUST 2023 / GREEN BAY, WI

- Created detailed CAD assemblies for new machinery
- Tested converting and packaging machinery prototypes
- Designed improved iterations of machine components
- Coordinated manufacturing of in-house and outsourced parts
- Extensively used Solidworks and Solidworks CAM

Ahlstrom Munksjo — Mechanical Engineering Intern

MAY 2021 - AUGUST 2021 & MAY 2022 - AUGUST 2022 / KAUKAUNA, WI

- Worked alongside the Papermill Maintenance and Engineering Departments
- increased safety, efficiency, and organization through the implementation of tools, equipment, and protocols
- Designed tools, structural layouts, and production processes to be installed or used
- Worked with multiple suppliers, vendors, and contractors on several projects
- Assisted with creating documentation on several six figure projects
- Wrote and specialized over 40 inspection guides and process presentations for employee training

PROJECT EXPERIENCE

Multiplanetary Innovation Enterprise — Lunabotics & Enterprise Manager

AUGUST 2022 - PRESENT

- Current Enterprise Manager as of Spring 2023
- Coordinate weekly meetings, recruiting events, and university enterprise requirements
- Manage training, project membership, and other administrative tasks for over 75 members
- Member of the Hopper and Material Handling subteam on the Astro Huskies Lunabotics team 2022-2023
- Designed and manufactured rover to dig and collect lunar icy regolith simulant in simulated lunar terrain
- Largely contributed to the design of a new actuated belt system earning the judges innovation award

CO-CURRICULAR INVOLVEMENT

CRU

AUGUST 2020 - PRESENT

- Co-leader of outreach team
- Student leader involved in planning organization events

WORK HISTORY

Ahlstrom Munksjo — Summer Operator

MAY 2020 - AUGUST 2020 / KAUKAUNA, WI

- Worked 12-hour day and night shifts operating industrial vehicles in factory setting
- Recognized for doing well in a fast-paced and physically demanding position