

Home:  
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Houghton, MI 49931

## SUMMARY

Fifth year mechanical engineering student with experience in robotics, computer aided design, and programming, who is seeking full-time employment after spring graduation.

## EDUCATION

Michigan Technological University  
**BS Mechanical Engineering**

Houghton, MI  
**Expected May 2022**

## CERTIFICATIONS

- ♦ Solidworks – Associate Sep. 2021
- ♦ Siemens NX – Academic Aug. 2021

## ENGINEERING PROJECT EXPERIENCE

- **Project:** NASA Lunabotics Competition Sep. 2019-Present  
**Team's Mission:** The Lunabotics competition's purpose is to build robots for NASA to optimize the mining process of icy regolith on the moon while following the system engineering method.  
**Objective (Personal):** Design and build a dustproof modular electrical system for the robot that can operate successfully while exposed to the moon's environment.  
**Outcome:** Successfully built the modular electrical system; currently performing thermal analysis tests.
- **Project:** Payload Transportation Rover Sep. 2018-Apr. 2019  
**Team's Mission:** Design, build, and test a robot that would assist in transporting heavy payloads.  
**Objective (Personal):** Program a user interface using Python to control the rover while displaying information like video feeds.  
**Outcome:** Successfully programmed the rover's controls and built a semi-functioning user interface.
- **Project:** FIRST Robotics Dec. 2013-Mar. 2016  
**Objective:** Design/build a robot under constraints to compete by performing actions such as throwing and catching projectiles, stacking crates, and traversing rough terrain while in possession of a payload.  
**Outcome:** Learned how to design a robot, troubleshoot problems, and how to improve current designs.

## COMPUTER/TECHNICAL SKILLS

- Solidworks
- Siemens NX
- MATLAB/Simulink
- Microsoft Office/Excel
- 3D Printing
- Circuit Design/Soldering
- CNC Mill Operation
- Prototyping
- Python/C++

## LEADERSHIP EXPERIENCE

**Enterprise Team Lead**, Electrical Hardware Sub-team Jan. 2019-Present  
**Memorial Union Board**, Chairman of Fun and Games Committee Sep. 2018-Apr. 2020

## WORK HISTORY

**Michigan Technological University** Houghton, MI  
Lab Researcher for manufacturing moon regolith June 2020-Aug. 2020  
**Abele Greenhouse and Garden Center** Saginaw, MI  
Landscapeer June 2019-Aug. 2019  
**M & R Mossner Farm (Family Farm)** Frankenmuth, MI  
Farm Hand 2008-Present

- Operation and maintenance of farm machinery to include planting, harvesting, baling, or picking up stones
- Restored several antique tractors

## VOLUNTEER WORK

**Memorial Union Board**, Michigan Tech, Houghton, MI Sept. 2018-Apr. 2020

- Budget, organize, and run a variety of exciting events for students