

Hunter McGillivray

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Passionate, hardworking, results oriented leader who learns and adapts quickly. Creative problem solver, fluent in concept development, design, fabrication and implementation of complex mechanical systems. Proven innovator in driving efficiency and effectiveness of the product design and the development process. Cross functional collaborator who strengthens the team by turning diverse ideas from all disciplines into holistic results.

Professional Experience

Michigan Tech's Planetary Surface Technology Development Lab 2020-2021

- Lead designer for lunar rover structural chassis, superconducting tether management system, and icy regolith test beds. Presented final design and test results to NASA's Jet Propulsion Laboratory during the critical design review. Awarded grand prize in NASA's **Big Ideas Challenge 2020** and NASA's **Watts on The Moon Challenge**.
- Responsible for designing test equipment and performing lunar regolith soil mechanic and volatiles analysis through joint development with Honeybee Robotics for NASA **LuSTER** proposal. Optimizing field rover to provide an efficient and robust test platform and designing heated percussive cone penetrometer to gather data.

Technical and Computer Skills

- CNC, Mill and Lathe operations
- Advanced 3D printer operations and maintenance
- CAD and Modeling: 1 year experience with **Creo Parametric**, 3 year experience with **NX 12** (CAD CAM and FEM/FEA) 4 years experience with **Autodesk** products
- Fluent 2 year of experience in **Matlab**, Familiar with Java, C#, C++, and Unix Command Line

Accomplishments/Accommodations

- Eagle Scout 2018
- 2-Time FIRST Robotics World Champion 2015-2019
- **NASA Big Ideas Challenge Winner** 2021
- **NASA Watts on The Moon Grand Prize Winner** 2021
- **NASA Break the Ice Challenge Runner Up** 2021

Education

- 3rd year **Mechanical Engineering** major at Michigan Technological University
- GPA: 3.53, **Dean's List** 2021
- Multiplanetary Innovations Enterprise, Competed in NASA Lunabotics competition and project manager for developing a robot arm for Oshkosh Corporation. 2019-2021

Volunteering Experience

- Led a team of Boy Scouts to refurbish a school playground. Partnered with school board, and Boy Scout national council to obtain approval, raised funds, and organized volunteers.