

JOSEPH MILLER

Houghton, MI

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OBJECTIVE

Robotics Engineering student with extensive experience in mechanical design and automation, including hands-on internships and a strong academic record. Seeking to apply my skills in SolidWorks, part design, and safety assessments to contribute to innovative engineering projects and advance technological solutions.

EDUCATION

BS Robotics Engineering | Michigan Technological University

2021-2025

GPA: 3.79 | Enterprise Mechanical Team Manager

Eagan High School

2018-2021

GPA: 3.71 | Graduated AP Scholar and with honors

EXPERIENCE

**Mechanical Engineering Intern | Ascential Technologies
Medical & Life Science**

May 2024 – Present

Independently designed 50+ support structure and safety guarding parts for an automated suture needle manufacturing machine • Utilized design intent for precision adjustments to meet medical standards for 99% accuracy • Assisted with FANUC robot calibration for visual part tracking

**Mechanical Engineering Intern | Ascential Technologies
Industrial Manufacturing**

May 2023 – Aug. 2023

Worked independently to accelerate project release timelines by creating innovative, detailed drawing for custom parts • Created CAD assemblies to be manufactured and installed on automation machines • Updated and verified pneumatic schematics to reflect the actual machine specs • Verified and signed off on safety risk assessments

SKILLS

- SolidWorks
- GD&T
- Manufacturing Drawings
- Pneumatics Schematics
- Safety Risk Assessment
- Additive Manufacturing
- MATLAB
- Java
- ROS
- C Programming Language
- ARM Assembly
- Linux

ACHIEVEMENTS & CERTIFICATIONS

Granted Stratasys scholarship for 3D printing • 10 Years of FIRST robotics experience (FLL, FTC) • 7 years of CAD and 3D printing experience • Certificate from MIT in Additive Manufacturing for innovative design and production • Certified SolidWorks Associate (CSWA)