

## Andrew Erickson

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### EDUCATION

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**Michigan Technological University**, Houghton, MI

Bachelor of Science in Mechanical Engineering, Minor in Aerospace Engineering

Graduation: Fall 2021

Relevant Coursework: Mechanics of Materials, Aerospace Propulsion, Fluid Mechanics, Computational Fluids Engineering, Circuits & Instrumentation, Mechanical System Design & Analysis, Dynamic Systems

### WORK EXPERIENCE

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**QA1 Precision**, Lakeville, MN, May 2018-August 2020 (4 semesters)

Mechanical Engineering Intern | *Solidworks models & drawings, Laser Scanning, Additive Manufacturing*

- Designed and manufactured production fixtures using additive manufacturing and laser cutting
- Worked with full time engineers on new product development and testing
- Used FARO laser scanning products to create models of existing suspension components and vehicle frames

**Michigan Technological University – Information Technology**, Houghton, MI, Jan 2017-Present

Classroom & Web Conference Support | *Zoom, WebEx*

- Provide technical assistance for both classroom and conference room computer systems
- Support video conferences on campus along with local presentations

**QA1 Precision**, Lakeville, MN, May 2017-August 2017

Mechanical Assembly / Quality Control | *CNC Press Break, Laser Cutter*

- Operated CNC press break and laser cutter to create sheet metal components
- Performed QC checks on bent parts and welded assemblies

### LEADERSHIP/INVOLVEMENT

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**SAE Blizzard Baja**, Michigan Technological University

Team President | *Leadership, Team Management, Solidworks, Manufacturing* | August 2019-Present

- Leading a team of 30-40 members to design and build a vehicle to compete in the annual SAE competition
- Developing a 4WD vehicle and the new drivetrain components needed for 4WD
- Designing new CV joints and half shafts for the 4WD vehicle

**SAE Aero Design**, Michigan Technological University

Team Pilot | *Team Management, Aircraft Design & Manufacturing, Pilot* | August 2016-Present

- Design and build an aircraft to compete in the annual SAE competition
- Pilot the aircraft for testing and the competition
- Integrate autonomous flight systems into the aircraft

### PERSONAL PROJECTS

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**Vehicle Rebuild** – *Engine Rebuild, Troubleshooted electrical & vacuum systems, Replaced drivetrain components*

- Pulled engine with a spun connecting rod bearing
- Replaced crankshaft, connecting rod, piston, rings, seals, gaskets and clutch
- Diagnosed and fixed problem with 4WD vacuum and electrical systems

**3D Printing Farm** – *Linux, Octoprint API, Octofarm*

- Manage a farm of 5 printers for covid face shield production
- Monitor each printer remotely while easily managing files and starting prints

**AndrewErickson.github.io** – *HTML, Volunteering, COVID Response*

- Website to host information about my family's face shield operation, all 8000+ of which we have donated
- Host pages documenting various educational and personal projects

### TECHNICAL SKILLS

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- Proficient with: Solidworks, Matlab, G-Code, Machining, 3D Printing, Piloting Drones & Planes
- Familiar with: C++, HTML, Siemens NX, CAM