

Christopher Iaconetti

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Education

University of Michigan

Bachelor of Science in Engineering; Mechanical Engineering

Minor in Computer Science

GPA: 3.6/4.0

Ann Arbor, MI

April 2020

Work Experience

Oshkosh Corporation – McNeilus

Mechanical Engineering Intern

Dodge Center, MN

May 2019 – August 2019

- Designed an alternative fender assembly for rear discharge concrete mixers, resulting in potential cost savings of \$450/unit and mass savings of 30 kg/unit
- Used finite element analysis to verify design concepts and optimize part material and geometry
- Worked with manufacturing engineering department to optimize design for manufacturability, cost, and assembly time
- Assisted with engineering change notices by modifying parts and assemblies to correct operational issues or to match customer specifications, documenting change process using product and data management software

MAC Valves

Process Engineer Intern

Dundee, MI

May 2018 – August 2018

- Regularly analyzed malfunctioning valves or machines used to assemble them. Solved different issues daily as they would arise to ensure production continued as scheduled
- Updated part/assembly specifications in SolidWorks to solve operational issues, coordinated with product development to make necessary changes to parts and assemblies
- Designed fixtures or tooling for more efficient assembly or testing of valves and their components, modeled parts in SolidWorks and created drawings for manufacturer use
- Ensured test procedures were sufficient for build being tested; updated or developed test procedures for modifications ordered by customers

Project Experience

Robotic Exploration of Space Team

Treasurer / Senior Advisor

University of Michigan

2019 – Present

Lead Mechanical Engineer

January 2018 – April 2019

- Student run team to design, manufacture, and test an autonomous mining robot to compete in NASA's Robotic Mining Competition
- Managed mechanical team progress, organized and ran meetings, set deadlines for design, integration, and manufacturing of rover - ensured deadlines were met, reviewed design concepts, and communicated with associated faculty
- Changed the work cycle of the team to address repeated issues with meeting competition deadlines
- Redesigned rover to mine gravel and reject fine regolith to optimize performance for new competition rules
- Used basic machine shop tools along with manual mills and lathes to manufacture parts to SolidWorks drawing specifications
- Participated in design reviews, wrote engineering reports, and performed community outreach

Technical Skills

Software: SolidWorks, MATLAB, Simulink, ANSYS, Microsoft Excel, Microsoft Office, SmarTeam, JD Edwards, Git

Languages: C++, Python, Arduino

Hands on: Experience with sheet metal design, manual mills and lathes, waterjet/laser cutters, and rapid prototyping