

# Matt Gustman

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## SUMMARY

4<sup>th</sup> year ME with 3 internships, Robotic Systems Enterprise experience and leadership skills, seeking internship or co-op.

## EDUCATION

Michigan Technological University (MTU) Houghton, MI  
**BS Mechanical Engineering** | GPA: 3.02 Expected: Fall 2017

## INTERNSHIP EXPERIENCE

Michigan Tech Houghton, MI  
**Non-Linear Automated Systems (NAS) Lab** May 2016-Present

- Troubleshoot and fixed a nonfunctioning 3D printer's code, circuitry, and mechanical components.
- Designed and assembled a new frame for the fixed 3D printer.
- Assisted in teaching 4 groups of High Schoolers and Middle Schoolers about robotics, and engineering.
- Designed and manufactured a platform for the students to put together what they learned about circuitry and coding.
- Modified the 3D model of a control board mount of an underwater glider, for 3D printing.

Marinette Marine Corporation/Fincantieri Marine Group Marinette, WI  
**Engineering Intern** May-Aug 2015

- Reviewed change orders and edited engineering drawings of pipe spools using AutoCAD
- Analyzed engineering drawings for discrepancies and redundancies, and then implemented updates.
- Collected, confirmed and corrected outsourced part numbers for company records
- Participated in the preparation of the launch ceremony of Littoral Combat Ship 9 (One of the most technologically advanced warships in the U.S. Navy)

**Manufacturing Intern** May-Aug 2014

- Analyzed piping systems for all modules of the U.S. Navy's Littoral Combat Ships using Navisworks 3D Modeling
- Evaluated ship piping installation progress and communicated to management
- Verified the piping map and installation progress through field inspection
- Translated ship changes from installation technicians to engineering drawings

## COMPUTER SKILLS

Arduino, AutoCAD, MATLAB, Solidworks, FEA, UGNX, Navisworks, Inspiration, Microsoft Office (Excel), Slic3r, Pronterface

## ENGINEERING PROJECT EXPERIENCE – ROBOTICS SYSTEMS ENTERPRISE

### Exoskeleton Knee:

**Objective:** Design and prototype the knee joint of an exoskeleton for medical therapy.

- Worked with other mechanical engineers to design the lower leg portion of the exoskeleton
- Consulted with Biomedical Engineers on how the leg muscles operate, to more accurately simulate the movement of the muscles

### Submersible:

**Objective:** Test and refine the design of a submersible

- Acted as Test Lead, and organized the testing of the submersible
- Redesigned the motor mounts for better structural stability
- Analyzed whether new vertical orientation of the submersible would be plausible.

## LEADERSHIP

- **Blue Key**, Special Events Committee Member Fall 2016 – Present
- **Financial Officer**, Robotic Systems Enterprise Spring 2016
- **Enterprise Ambassador**, Robotic Systems Enterprise Spring 2017
- **Team Captain**, Michigan Tech, Broomball Spring 2015
- Red Belt, Tae-Kwon-Do
- Secretary, Dungeons and Dragons club Fall 2015 – Spring 2016

## WORK EXPERIENCE

Staff Trainer, Crew Member, **McDonalds' Restaurant**, Marinette, WI, Mar 2011-Aug 2013

**INTERESTS:** Gaming, Snowboarding, Tae-Kwon-Do, Broomball