

Taylor Meyer



Personal Information

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Website

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Education

B.S Mechanical Engineering

Iowa State University

2015 - 2019

Major GPA: 3.33/4.0

Activities and Awards

- Women in Science and Engineering
- Society of Women Engineers
- The AV Life Podcast
- Student Astronaut Contest Finalist

Skills

CNC Mill	●●●●●
Lathe	●●●○○
MIG Welding	●●●○○
Metal Working	●●●●○
SolidWorks	●●●●○
AutoCAD	●●●○○
Creo	●●●●○
HTML	●●●●●
MATLAB	●●●●○
MS Office	●●●●●

Objective

Dedicated and detail-oriented Mechanical Engineering graduate looking to fill a position in January 2020. Specializing in robotic technology and autonomy, I bring my education and passion to the space and biomedical industry in an effort to enhance my knowledge and further my career as Mechanical Engineer.

Work Experience

May 2018 - Manufacturing Engineer Co-Op, CIVCO Medical Solutions

[Manufacturing company primarily focusing on the use of needle guides and ultrasound probes]

- Managed and presented solutions related to an FDA audit for implementation of a regulatory Unique Device Indicator on 1,100 reusable products
- Ensured machines worked properly and safely by writing critical qualification protocols including IQ, OQ, and PQ documents in collaboration with both engineers and labor workers in Juarez, Mexico
- Invented a new product idea to reduce infection spread through disposable needle guides; currently at the feasibility testing stage of development

Aug 2017 - Machine Shop Technician, Iowa State University

[High Level fabrication lab that supports Mechanical Engineering classes and academic projects]

- Responsible for training 150+ students each semester to follow safety procedures while operating machinery
- Assisted with student and professor job requests using SolidWorks, Manual Lathes, CNC Mills, and other metal working machines
- Devised a project to demonstrate manufacturing processes such as design for assembly and manufacturability to incoming students

May 2016 - Turck Inc

[Specialist in sensor, connectivity, human-machine interfaces and RFID systems]

Manufacturing Engineer Intern (June 2017 – August 2017)

- Developed an automated barcode program for company wire stripping machines that reduced labor costs by \$250,000/year
- Modified the current company floor plan to ensure accuracy and precision for work flow with input from assembly floor employees

Mechanical Engineer Intern (May 2016 – August 2016)

- Implemented a Continuous Improvement program to increase work flow on the production floor between shifts by 15%
- Collaborated with engineers to complete test design of existing products, update company AutoCAD drawings, and design custom products

Extra-Curricular Experience

Aug 2015 - Cardinal Space Mining

[NASA R&D club aiding in the design, build, and testing of innovative robots to mine minerals]

President (2019 – Present), Vice President (2018 – 2019)

- Chaired General, Officer, and Engineering Governance Board Meetings
- Established Standard Operating Procedures to verify safety and knowledge of engineering practices for the club
- Facilitated, and resolved member, sponsorship, and manufacturing issues

Mechanical Project Lead (2017 – 2018) – 8th Place Overall

- Incorporated NASA's Systems Engineering practices within a Technical Report focusing on in-depth knowledge of design and functionality of the robot
- Competed at the Robotic Mining Competition, including presenting to NASA engineers, adapting under pressure, and operating in a simulated environment
- Headed the design, manufacturing, and testing of a first generation trencher robot

Outreach Lead (2016 – 2017) – 2nd Place Outreach and Social Media Award

- Orchestrated and attended 279 hours and reached 13,000 members of the Iowa community.
- Authored an outreach report explaining the club's priority to share its members' passion for STEM with children, families, and the community