Chase A. Mulder

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Personal Information

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LinkedIn

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Skills

MIG Welding

CNC machining

Solid Works

Engineering drawings

Powered Angle grinder

Hydraulic press

Metal band saw

CNC Machining

Metal band saw

Belt sander

Drill press

Power tools

Powered hand saw

Arduino Uno and Mega

C coding in Code Block

C coding in Code Composer Studio

Fritzing Circuit Diagrams

3D Printing

Changing car tires

Word / Excel / PP / Emailing

Education

- Grand Valley State University Allendale, MI — Expected Graduation: 2022
- Degree: Bachelor of Science in Engineering
- Major: Mechanical Engineering
- GPA: 2.975

Engineering Experience

- Lego League robotics team member — 2010 - 2011
- Head of Power Consumption and batteries For senior year electric racing kart — Fall 2016
- Pedal Desk senior year project — Winter 2016
- Assistant in fixing back axel and Re-ball bearing the back wheel of my boat — Summer 2017
- Robo Sockey group leader — Fall 2018

Projects

- Constructed Pedal Desk and is being used at Calvin Christian High School as an example to other engineers what a good Senior year project looks like
- Pedal Desk is a functioning generator with flywheel and gear box under your desk that you pedal to power a light bulb
- Assembled 14 Solid Works parts into a Solid Works assembly
- Head of Electronics for electric kart in the National Electric Kart Association
- Kart passed inspections held by Grand Valley engineers
- Fabricated Robo Sockey Chassis
- Manually G-Coded chassis design and manufactured on CNC mill
- Wrote all the C Code for Robo Sockey robot
- Can control ultrasonic sensors, sharp infrared sensors, reflectance arrays, and DC gear motors
- Designed and electronic teddy bear that was donated
- Replaced boat's trailer wheel bearing and back axel
- Completed 50 hours of service doing volunteering work for Calvin Christian

Key Skills and Knowledge Areas

- Solid command of technologies, tools and best practices in designing mechanical assemblies using Solid Works and engineering drawings
- Excellent shop and safety skills honed from experience as a machinist and welder
- Strong team collaboration skills working closely with team members to achieve engineering goals