

**JARED W ENGWIS**  
**ELECTRICAL ENGINEER**

4878 Bailey Bridge Road, Freeland MI, 48623  
Mobile: 989.859.3625 • Email: jared.engwis@gmail.com

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**EDUCATION &  
CREDENTIALS**

**Bachelor of Science, Electrical Engineering (BSEE), 8/2017 – Present**

MICHIGAN TECHNOLOGICAL UNIVERSITY (MTU), HOUGHTON, MICHIGAN

- GPA: 3.54
- 70 earned credit-hours
- Classes taken include Circuits I, Circuits II, Digital Logic, and Calculus III. Classes I'm taking this semester include Electronics, Electromagnetics, and Signals and Systems

**TECHNICAL  
SKILLS**

- Open minded with deep desire to learn
- Computer Programming Experience
  - Java, C/C++, Visual Basic, Basic Python, MATLAB
- CAD Experience
  - Google Sketchup, Autodesk Inventor, Autodesk Revit, AutoCAD, Siemens NX
- Circuit Design/Programming
  - Multisim, Utiliboard, Eagle, Quartus II, Logisim

**AWARDS**

- Presidential Distinction Scholarship
- Nexteer Internship Scholarship

**LEADERSHIP  
EXPERIENCE**

**Midland High School STEM**

- Robotics team member (1 year)
- CAD Club President (1 year)
- CAD Club Member (2 years)

**Michigan Tech**

- Engineering 1101 Wind Turbine Project
- Engineering 1102 Alternative Energy Production Project
- Robotic Systems Enterprise

**EXPERIENCE  
HIGHLIGHTS**

**MULTICOM LLC, MIDLAND, MICHIGAN**

**Assistant, 6/2014 – 9/2018**

- Company dedicated to leasing and maintaining commercial properties, homes, and apartments
- Wiring and creating detailed diagrams

**NEXTEER AUTOMOTIVE ELECTRICAL ENGINEERING INTERNSHIP**

**CIS VALIDATION INTERN, 5/2019 – 8/2019**

- Electrical Engineering project
  - Worked with steering column motors, current ripple sensing technology (hall sensors), operational amplifiers, and other basic circuit components
  - Strongly reinforced my previous knowledge of Electrical Engineering topics
    - Knowledge used includes active band-pass, low-pass, and high-pass filters, voltage followers, amplification, full wave rectifiers, level-shifting, and ac-coupling
- EPS Driven Go-Kart Competition
  - Optional Opportunity given to summer interns and co-ops
  - Teams were given \$300, a K2XX GM motor, a marine battery, and all of the plant scraps to construct a go-kart
  - Lots of fun and a great learning experience

## **ROBOTIC SYSTEMS ENTERPRISE**

**MEMBER, 8/2018 – PRESENT**

- RSE focuses on innovative projects such as:
  - AutoDrive Challenge, GLRC Buoys, Clearpath
  - Projects that I have worked on personally include:
    - Program an Arduino on a Pololu Zumo 32U4 robot to perform a special task
    - Converting gas propelled 1/10<sup>th</sup> scale AutoRally RC to electric propulsion
    - AutoDrive Challenge
      - Project team lead with a focus on Localization