

# Walker Oneill

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## SUMMARY

Current Electrical Engineering student with experience in automotive systems and data analysis, engaging in hands-on projects to develop and validate electronic vehicle systems. Collaborated effectively with diverse teams, leveraging strong analytical skills and a passion for automotive technology. Actively utilized HiL systems to enhance integration and testing processes while contributing insightful data evaluations that improve project outcomes. Eager to bring both practical skills and theoretical knowledge to an internship, keen on advancing within the automotive industry.

## EDUCATION

**Bachelor's Degree in Electrical Engineering**  
University of Detroit GPA: 3.8  
*Coursework: Circuit Analysis, Data Structures, Control Systems, Automotive Electronics*

2026  
Detroit, MI

## TECHNICAL SKILLS

- **Data Analysis Tools:** Excel, MATLAB, Tableau
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Testing Equipment:** HiL System, Oscilloscope, Multimeter
- **Document Management:** SharePoint, Google Docs, MS Word
- **Engineering Software:** AutoCAD, PSpice, Altium Designer
- **Simulation Tools:** MATLAB Simulink, Ansys, COMSOL
- **Project Management Tools:** Trello, Asana, JIRA
- **Statistical Software:** SPSS, R Studio, Python
- **Research Methods:** Qualitative Analysis, Surveys, Experiments
- **Professional Standards:** ISO 26262, ASIL, SAE J1939

## SKILLS

- |                       |                           |                          |                          |
|-----------------------|---------------------------|--------------------------|--------------------------|
| • Data Analysis       | • Documentation Practices | • Statistical Software   | • Technical Writing      |
| • HiL Systems         | • Team Collaboration      | • Prototyping            | • Troubleshooting        |
| • MATLAB              | • Systems Integration     | • Simulation Techniques  | • Research Methodologies |
| • Vehicle Electronics | • Testing Protocols       | • Performance Evaluation |                          |

## EXPERIENCE

**Automotive Systems Development Intern**  
University Project

January 2026 - Present  
Detroit, MI

Participated in a team-based project focusing on designing and testing automotive electronic systems. This role involved garnering insights from both theory and practical implementation of engineering concepts.

- Collaborated with cross-functional teams in developing integrated automotive electronic systems.
- Applied HiL systems for validation, enhancing product understanding and accuracy during testing phases.
- Utilized MATLAB for effective data analysis, providing actionable insights for performance improvements.
- Assisted in maintaining proper documentation standards aligned with industry practices.
- Engaged in weekly progress meetings, escalating communication strengths through collaborative efforts.
- Contributed to troubleshooting efforts, fostering innovative problem-solving within the team.

**Vehicle Electronics Design Team Member**  
Capstone Project

September 2025 - December 2025  
Detroit, MI

Contributed as part of a dedicated group focused on building a prototype control system for vehicles. Responsibilities included rigorous testing and collaboration within the design framework.

- Developed a robust prototype system aimed at efficient real-time data processing.
- Conducted vehicle simulations rigorously to test reliability across various operational conditions.
- Enhanced technical writing capabilities by thoroughly documenting methodologies and outcomes.
- Presented the project to faculty, receiving constructive feedback and showcasing strong presentation skills.
- Iteratively improved based on insights gained from peer reviews enhancing deliverable quality.

- Familiarized with leading tools and methods, preparing for future engineering challenges.

Research Assistant

January 2025 - May 2025

Academic Research

Detroit, MI

Supported advanced research initiatives on vehicle electronics and their efficacy towards improving overall vehicle performance. Engaged heavily in abstract and empirical inquiries.

- Assisted in compiling and analyzing data critical for ongoing research publications.
- Employed statistical software accurately interpreting research findings, contributing significantly to knowledge advancement.
- Worked alongside faculty directing educational materials related to automotive systems.
- Participated actively in discussions about future technological advancements, enriching innovation output.
- Helped organize academic seminars fostering excitement and awareness regarding automotive electronics.
- Developed strong foundational insights into vehicle electronics spanning both theoretical and applied dimensions.

LEADERSHIP & AWARDS

- Dean's List, University of Detroit, 2025
- First Place, University Hackathon, 2025

CERTIFICATIONS

- Introduction to Data Analysis  2026
- Automotive Electronics Fundamentals  2026

PROFESSIONAL AFFILIATIONS

- Member, Automotive Engineering Society, 2024 – Present
- Volunteer, STEM Outreach Program, 2024 – Present

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST