



Walker Oneill

Automotive Systems Engineer Intern

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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 2026 Detroit, MI

Coursework: Circuit Analysis, Data Structures, Control Systems, Automotive Electronics

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

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.

STRENGTHS

Analytical Skills

Excels at evaluating complex datasets to determine actionable findings and impact on project objectives.

Collaboration

Eagerly collaborates with peers, gaining insights into multifaceted engineering challenges through teamwork.

Adaptability

Quickly adjusts to new tools or methodologies, embracing changes presented by project requirements.

Innovative Problem-Solving

Enjoys addressing obstacles with creative solutions, fostering breakthroughs in automotive electronic developments.

Effective Communication

Articulates ideas clearly within team environments, ensuring smooth exchange of critical information.

SKILLS

Data Analysis HiL Systems

MATLAB Vehicle Electronics

Documentation Practices

Team Collaboration

Systems Integration

Testing Protocols

Statistical Software Prototyping

Simulation Techniques

Performance Evaluation

Technical Writing Troubleshooting

Research Methodologies

LANGUAGES

English

Native

Spanish

Intermediate

MY CAREER

1.2

YEARS

● Automotive Systems Development Intern at University Project (7 Months)

● Vehicle Electronics Design Team Member at Capstone Project (3 Months)

● Research Assistant at Academic Research (4 Months)

- 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

Academic Research 📅 January 2025 - May 2025 📍 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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST