

Dallas Hensley

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SUMMARY

Dedicated Automotive Engineer with over 5 years of experience specializing in vehicle diagnostics, triage, and modernization. A passion for hands-on work motivates commitment to solving technical challenges and implementing innovative solutions. Spearheading projects in OEM environments has led to successful troubleshooting and compliance with stringent engineering standards. Expertise includes vehicle architectures, diagnostic tools, CAN communication, and data analysis, backed by a strong history of collaboration among diverse teams. Eager to leverage this experience in an automotive triage role that supports groundbreaking electric vehicle technologies.

EXPERIENCE

Automotive Diagnostics Engineer

January 2021 - Present

TechDrive Innovations

Troy, MI

As an Automotive Diagnostics Engineer, lead efforts in diagnosing and resolving hardware/software issues within prototype electric vehicles. Collaborate across departments to enhance testing efficiencies while maintaining high-quality standards.

- Spearheaded complex technical triage for electric vehicle platforms, prioritizing rapid issue resolution in real-time contexts.
- Conducted thorough analyses of CAN and LIN logs; actions enhanced system performance metrics across multiple prototype vehicles.
- Collaborated extensively with cross-functional teams to optimize test setups, realizing marked improvements in testing turnaround times.
- Executed validation checklist tests ensuring alignment with quality objectives throughout the product lifecycle.
- Implemented successful fault tree analysis methodologies to identify root causes, significantly improving problem-solving responsiveness.
- Mentored numerous junior engineers on diagnostic tools and automotive data systems, fostering a collaborative learning environment.

Vehicle Systems Engineer

June 2018 - December 2020

AutoTech Solutions

Detroit, MI

Vehicle Systems Engineer focused on diagnostic and engineering practices, collaborating effectively with suppliers to maintain high quality and reliability in various automotive subsystems.

- Led investigative efforts into automotive subsystems, reproducing intricate problems with accuracy under time constraints.
- Utilized detailed vehicle data analysis directing design adjustments which ensured compliance with set industry standards.
- Worked closely with suppliers addressing post-production issues, enhancing overall vehicle reliability through comprehensive strategies.
- Delivered training sessions on structured problem-solving techniques, resulting in a more capable troubleshooting team.
- Conducted extensive functional and durability tests contributing significantly to phased product development processes.
- Improved clarity in technical documentation practices allowing seamless communication across multiple engineering domains.

Junior Engineer

August 2016 - May 2018

Crestline Automotive

Lansing, MI

Beginning career as a Junior Engineer involved in supporting senior engineering activities including vehicle integration and diagnostics.

- Assisted in pivotal projects related to automotive electrical systems, acquiring essential skills in real-world applications.
- Supported senior engineers in data analysis efforts easing fault diagnosis processes across vehicle platforms.
- Participated actively in cross-functional meetings, sharing insights that fostered improved project outputs and teamwork.
- Pursued continuous learning endeavors through workshops focused on emerging automotive trends and technologies.
- Documented vital testing procedures, aiding formally in project report generation and outcomes visibility.
- Employed diagnostic tools methodically; behaviors contributed to optimization of vehicle functionalities during developmental phases.

LEADERSHIP & AWARDS

- Received the Innovation Award for contributions toward vehicle performance enhancements at TechDrive.
- Recognized as Employee of the Month for outstanding teamwork and problem-solving capabilities at AutoTech Solutions.

EDUCATION

Bachelor's Degree in Electrical Engineering

2016

Michigan State University GPA: 3.5

East Lansing, MI

Coursework: Circuit Analysis, Digital Systems, Control Theory, Electrical Machine Design

CERTIFICATIONS

- Certified Automotive Engineer (CAE) 📅 2019
- Vehicle Diagnostics and Data Analysis Certification 📅 2020

TECHNICAL SKILLS

- **Diagnostic Tools:** Vector CANOE, ETAS INCA, NI VeriStand
- **Automotive Software:** MATLAB, Simulink, LabVIEW
- **Testing Frameworks:** ISO 26262, ASPICE, SAE J1939
- **Electrical Engineering Concepts:** CAD Software, PCB Design, Signal Processing
- **Communication Protocols:** CAN, LIN, Ethernet
- **Troubleshooting Techniques:** Root Cause Analysis, Fault Tree Analysis, 8D Problem Solving
- **Performance Metrics Tools:** Data Acquisition Systems, Oscilloscopes, Multimeters
- **Version Control Systems:** Git, SVN, Mercurial
- **Project Management Tools:** JIRA, Trello, Asana
- **Statistical Analysis Software:** Minitab, SPSS, R

SKILLS

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|--------------------------|----------------------------------|-------------------------|---------------------------|
| • Automotive Engineering | • Problem Solving | • Fault Analysis | • Prototype Development |
| • Vehicle Diagnostics | • Cross-Functional Collaboration | • Performance Testing | • Enhancement Initiatives |
| • CAN/LIN Communication | • Technical Communication | • Quality Assurance | • Team Mentoring |
| • Electrical Systems | • Data Analysis | • Electric Architecture | • Testing Methodologies |

PROFESSIONAL AFFILIATIONS

- Member of the Society of Automotive Engineers (SAE), participating actively in events focused on innovation.
- Volunteer mentor for local engineering students, helping with technical knowledge and real-world applications.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST