

Jett Payne

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SUMMARY

Dynamic Brake System Development Engineer with over 10 years of experience in automotive engineering, specializing in brake system development and validation. Proven track record collaborating with cross-functional teams to drive product quality and compliance. Adept in executing DVP&R activities and performing rigorous testing including NVH, durability, and environmental validation. Strong analytical and problem-solving skills, dedicated to continuous improvement in automotive systems. A passion for innovation fuels design processes, ensuring systems consistently meet industry standards and exceed performance expectations.

EXPERIENCE

Senior Brake System Engineer

January 2020 - Present

AutoTech Innovations

Troy, MI

Lead the development and validation of advanced automotive brake systems, ensuring compliance with industry standards and regulations while enhancing vehicle performance criteria. Provide oversight on projects within dynamic engineering environments focused on meeting rapid timelines and stringent standards.

- Created and implemented comprehensive DVP&R for new brake designs, improving verification processes significantly.
- Conducted extensive performance testing using advanced data acquisition methods to enhance braking effectiveness.
- Collaborated across multidisciplinary teams resolving complex engineering challenges, thereby elevating product reliability.
- Facilitated root cause analysis and developed corrective actions for system issues, resulting in a significant reduction in warranty claims.
- Mentored junior engineers in best practices for developing robust brake system testing methodologies.

Brake Development Engineer

March 2015 - December 2019

Brake Systems Inc.

Livonia, MI

Focused on developing and validating brake systems for diverse vehicle models by applying industry-leading testing practices that ensured performance efficiency. Worked closely with OEMs to address project specifications and compliance requirements, strengthening partnerships and technological alignment.

- Developed innovative brake technologies adopted in several new vehicle platforms, improving consumer trust and satisfaction.
- Executed NVH testing protocols leading to reduced noise levels and enhanced user comfort significantly.
- Prepared detailed test reports that guided design modifications aligning with both operational and regulatory requirements.
- Successfully engaged with OEM teams to synchronize project milestones and facilitate seamless integration into production schedules.
- Supported continuous improvement initiatives which boosted testing accuracy and reduced timeframes efficiently.

Brake Testing Engineer

June 2012 - February 2015

Dynamic Motors

Southfield, MI

Performed systematic brake performance testing and analysis to support essential product development cycles. Interfaced effectively with engineering groups to troubleshoot discrepancies, fostering data integrity and operational excellence in testing procedures.

- Conducted a variety of brake performance tests which directly influenced key product decisions based on empirical data.
- Assisted in the development of DVP&R documentation in compliance with corporate policies, ensuring thorough testing of innovations.
- Participated actively in cross-functional design reviews conveying clear insights about testing results and prototypes.
- Monitored environmental validation tests assuring complete adherence to mandatory regulations and sustainability efforts.
- Created training materials to better equip new engineers with crucial knowledge on equipment and testing processes.

LEADERSHIP & AWARDS

- Recognized as Innovative Engineer of the Year 2023 for outstanding contributions to automotive brake technologies.
- Recipient of Employee Excellence Award 2021 for leadership in team projects leading to significant cost savings.

EDUCATION

Bachelor of Science in Mechanical Engineering

2012

University of Michigan GPA: 3.5

Ann Arbor, MI

Coursework: Automotive Systems, Dynamics, Thermodynamics, Structural Analysis

CERTIFICATIONS

- Certified Automotive Engineer (CAE) 📅 2020
- Six Sigma Green Belt Certification 📅 2019

TECHNICAL SKILLS

- **Simulation Tools:** MATLAB, Simulink, ANSYS
- **Data Acquisition Systems:** LabVIEW, QuantumX, dSPACE
- **Testing Equipment:** Dyno Bench, HIL Test Systems, Environmental Chambers
- **Project Management Software:** MS Project, JIRA, Trello
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Documentation Tools:** Confluence, SharePoint, Google Docs
- **Test Methodologies:** ISO 9001, TS16949, SAE Standards
- **Data Analysis Software:** Excel, MATLAB, Minitab
- **Compliance Standards:** FMVSS, ECE Regulations, DOT Guidelines
- **Performance Testing Tools:** Chassis Dynos, Load Cells, Transducers

SKILLS

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|----------------------------|----------------------------------|-------------------------|---------------------------------|
| • Brake System Development | • Problem-Solving | • Performance Testing | • Testing Protocols |
| • DVP&R Execution | • Cross-Functional Collaboration | • Root Cause Analysis | • Design Modifications |
| • NVH Testing | • Continuous Improvement | • Statistical Analysis | • Customer Feedback Integration |
| • Data Analysis | • Environmental Validation | • Regulatory Compliance | |

PROFESSIONAL AFFILIATIONS

- Member of Society of Automotive Engineers (SAE), participating in industry seminars to share knowledge and best practices.
- Active participant in local engineering community, mentoring students through STEM outreach programs.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST