



# MICHAEL ANDERSON

## Senior Brake Systems Engineer

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### SUMMARY

A highly skilled Brake Systems Engineer with over 10 years of experience in the automotive industry, specializing in the design and optimization of braking systems for high-performance vehicles. Proven expertise in utilizing advanced simulation tools and methodologies to enhance system reliability and performance. Demonstrated ability to lead cross-functional teams in the development and implementation of innovative braking solutions that meet stringent safety and regulatory standards.

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### WORK EXPERIENCE

#### Senior Brake Systems Engineer AutoTech Innovations

Jan 2023 - Present

- Led the design and testing of advanced brake systems for electric vehicles.
- Utilized ANSYS and MATLAB for simulation and analysis of braking performance.
- Collaborated with suppliers to improve component quality and reduce costs.
- Conducted failure mode and effects analysis (FMEA) to enhance system reliability.
- Developed and implemented test protocols for compliance with industry standards.
- Mentored junior engineers in brake system design principles and methodologies.

#### Brake Systems Engineer Global Automotive Solutions

Jan 2020 - Dec 2022

- Designed hydraulic brake systems for a range of vehicle models.
  - Performed root cause analysis on brake system failures to drive improvements.
  - Worked closely with the R&D team on new product development initiatives.
  - Executed extensive testing procedures to validate braking performance.
  - Maintained documentation for regulatory compliance and product specifications.
  - Participated in cross-departmental meetings to align engineering goals with business objectives.
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### EDUCATION

#### Master of Science in Mechanical Engineering, University of Michigan, 2011

Sep 2019 - Oct 2020

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### ADDITIONAL INFORMATION

- **Technical Skills:** Brake system design, Simulation tools, Project management, FMEA, Regulatory compliance, Team leadership
- **Awards/Activities:** Reduced brake system weight by 15% without compromising performance.
- **Awards/Activities:** Received 'Innovator of the Year' award for contributions to electric vehicle braking systems.
- **Awards/Activities:** Improved customer satisfaction ratings by 20% through system enhancements.
- **Languages:** English, Spanish, French