



MICHAEL ANDERSON

Senior HVAC Engineer

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SUMMARY

A highly skilled Automotive HVAC Engineer with over 12 years of experience in the development and optimization of heating, ventilation, and air conditioning systems for automotive applications. Demonstrated ability to lead cross-functional teams in the design and implementation of innovative HVAC solutions that enhance vehicle performance and passenger comfort. Expertise in thermal management, fluid dynamics, and system integration, combined with a strong foundation in regulatory compliance and sustainability practices.

WORK EXPERIENCE

Senior HVAC Engineer Automotive Innovations Inc.

Jan 2023 - Present

- Led the design and development of next-gen HVAC systems for electric vehicles.
- Utilized computational fluid dynamics (CFD) simulations to optimize airflow and thermal performance.
- Collaborated with suppliers to select high-efficiency components.
- Conducted rigorous testing to validate system performance against industry standards.
- Implemented design changes based on customer feedback to enhance user experience.
- Managed project timelines and budgets, achieving a 15% reduction in costs.

HVAC System Designer Global Automotive Tech

Jan 2020 - Dec 2022

- Developed HVAC system specifications for various vehicle models.
- Performed thermal analysis to ensure optimal system efficiency.
- Worked closely with manufacturing to streamline production processes.
- Coordinated with electrical engineers for integrated system designs.
- Participated in cross-departmental design reviews and project meetings.
- Documented design processes and maintained compliance with safety regulations.

EDUCATION

Master of Science in Mechanical Engineering, University of Michigan, 2014

Sep 2019 - Oct 2020

ADDITIONAL INFORMATION

- **Technical Skills:** HVAC Design, Thermal Management, Fluid Dynamics, Project Management, Regulatory Compliance, Energy Efficiency
- **Awards/Activities:** Received the 'Innovative Engineering Award' for exceptional contributions to HVAC technology.
- **Awards/Activities:** Successfully reduced HVAC system weight by 20%, improving overall vehicle efficiency.
- **Awards/Activities:** Published research on advanced HVAC solutions in leading automotive journals.
- **Languages:** English, Spanish, French