



# MICHAEL ANDERSON

## MIXED-SIGNAL SOC DESIGN ENGINEER

### PROFILE

Dynamic SoC Design Engineer with a solid track record in mixed-signal design and verification in the automotive sector. Over 7 years of experience developing robust SoC solutions for safety-critical applications, ensuring compliance with industry standards like ISO 26262. Expertise in simulation and modeling to predict performance and identify potential issues early in the design process.

### EXPERIENCE

#### MIXED-SIGNAL SOC DESIGN ENGINEER

##### AutoTech Dynamics

2016 - Present

- Designed and verified mixed-signal SoCs for advanced driver-assistance systems (ADAS).
- Utilized MATLAB and Simulink for system-level simulations, increasing design accuracy.
- Collaborated with cross-functional teams to ensure compliance with automotive safety standards.
- Developed test plans and scripts for automated testing, enhancing validation efficiency.
- Participated in design reviews, providing critical feedback to improve design robustness.
- Trained interns on design methodologies and tools, fostering a culture of learning.

#### SOC DESIGN ENGINEER

##### Smart Auto Solutions

2014 - 2016

- Contributed to the design of high-performance SoCs for electric vehicles, focusing on power efficiency.
- Employed Cadence tools for layout and verification, achieving a first-pass success rate of 90%.
- Worked closely with firmware teams to optimize boot times and system performance.
- Implemented design changes based on test results, improving yield rates by 15%.
- Maintained up-to-date documentation and design records for traceability.
- Assisted in the development of design guidelines that improved team efficiency.

### CONTACT

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### SKILLS

- mixed-signal design
- automotive standards
- MATLAB
- Simulink
- CAD tools
- team collaboration
- problem-solving

### LANGUAGES

- English
- Spanish
- French

### EDUCATION

BACHELOR OF SCIENCE IN  
ELECTRONICS ENGINEERING,  
UNIVERSITY OF MICHIGAN

### ACHIEVEMENTS

- Recognized as the 'Rising Star' in engineering for contributions to ADAS projects.
- Successfully implemented a new testing methodology that reduced validation time by 30%.
- Contributed to a patent for a novel SoC architecture in automotive applications.