

**Raghava Krishnan**

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**Objective**

Innovative and detail-oriented Automotive Embedded Tester with 4 years of experience specializing in the testing and validation of embedded systems for automotive applications. Proficient in a wide array of testing tools and programming languages, with a strong commitment to enhancing software quality and reliability in vehicle control systems. Seeking to leverage my expertise in a dynamic team to drive the success of cutting-edge automotive projects.

**Professional Experience****Senior Embedded Systems Tester**

AutoTech Innovations Pvt. Ltd., Bangalore, Karnataka

July 2020 – Present

- Led the testing team in the validation of embedded software for electric vehicle (EV) control units, achieving a 25% reduction in post-deployment issues.
- Designed and executed automated test scripts using Python and C++, resulting in a 40% improvement in test coverage and efficiency.
- Mastered the use of CANoe for ECU network simulation and testing, ensuring seamless communication in vehicle systems.
- Spearheaded the adoption of Agile testing methodologies, enhancing team flexibility and project delivery speed.
- Conducted in-depth analysis using oscilloscopes and JTAG, identifying and resolving critical system bugs.

**Embedded Systems Tester**

VehiControl Solutions, Chennai, Tamil Nadu

June 2018 – June 2020

- Developed and implemented comprehensive test plans for automotive safety systems, contributing to the company's recognition for outstanding safety features in 2019.

- Utilized MATLAB/Simulink for modeling and simulating control algorithms, ensuring their accuracy and reliability.
- Employed VectorCAST for unit and integration testing of software components, enhancing code quality and system robustness.
- Collaborated closely with software developers to refine system designs based on testing insights, facilitating continuous improvement in product development.

## **Skills**

- Tools: Proficient in CANoe, LabVIEW, MATLAB/Simulink, VectorCAST, and Lauterbach Trace32
- Programming Languages: Advanced knowledge in C, C++, Python, and Embedded C
- Technologies: Experienced with CAN, LIN, FlexRay, and AUTOSAR standards
- Testing Methodologies: Expert in Unit, Integration, System, Regression, and Performance Testing
- Additional Skills: Skilled in JTAG Debugging, Oscilloscope Operation, Agile Methodologies, and Test Plan Development

## **Education**

Bachelor of Engineering in Electronics and Communication

Indian Institute of Technology (IIT), Madras

August 2014 – May 2018

- Graduated with First Class Honors.
- Final Year Project: "Design and Testing of an Autonomous Vehicle Control System."

## **Certifications**

- Certified Software Test Engineer (CSTE) – 2019
- ISTQB Certified Tester Foundation Level (CTFL) – 2018

## **Professional Affiliations**

- Active Member, Society of Automotive Engineers (SAE) since 2019
- Member, IEEE Computer Society since 2018