

**HiL Validation Engineer** with over **8.8 years** of experience in the ECU SW and Model Development, ECU Testing Techniques, Test Automation Development, HiL Testing and Project Coordination. Extensive Knowledge and Experience in Power train over the breadth of SW Development Process.

**AREAS OF EXPERTISE**

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|-------------------------------|-------------------------|------------------------|
| ✓ Real Time Test Automation   | ✓ Mathematical Modeling | ✓ Technical Expert     |
| ✓ HiL Testing                 | ✓ ECU SW Development    | ✓ Programmer           |
| ✓ Test Automation Development | ✓ ECU Testing           | ✓ Project Coordination |

**PROFESSIONAL EXPERIENCE**

**Mercedes Benz R & D India, Bangalore ,India**  
**2013 Sep – Present**

**Onsite Assignments @ DAIMLER AG, Stuttgart, Germany**

**2014:** Mar–Jun, Sep-Dec | **2015:** Mar–Jun, Oct-Dec | **2016:** Oct- Dec | **2017:** Jan-Mar, Oct-Dec  
| **2018:** Jun–Jul, Sep-Nov |

**PRINCIPAL ENGINEER – LEVEL 6**

- Test Automation Development of Sensor Diagnostic Functions , Aggregate Torque Coordination Functions for Engine ECU
- Test Automation Development of ISO26262 Functional Safety Relevant Tests for Transmission ECU Functions
- Test Automation Development of T1 GLIWA via REST API for obtaining Multi core Controller Timing Measurement and Maximum CPU Load Measurement
- Tool Development for HiL Plant Model Offline Parameterization
- Domain Know How on two major components of the Power Train – Engine and Transmission
- Technical Lead and Coordinator for Test Automation Team of 9 Engineers
- Multiple Onsite Assignments for V Cycle Software Validation, International Cooperation and Customer Coordination Topics

**Robert BOSCH Engineering and Business Solutions India, Coimbatore, India**  
**2011 Feb – 2013 Sep**

**SENIOR SOFTWARE ENGINEER**

- Model Development of Engine ECU Functions – Actuator Self Test, Torque Distribution/Reservation during Maximum Load, Idle Speed Control in MATLAB and ASCET
- Multiple Tool Development – Majorly Data to Model(D2M) – For Conversion of Autosar Interface Data to ASCET Models
- Involved in Integration of Customer Specific AUTOSAR Functions into ECU SW and developed necessary adapters for the interface
- Been Instrumental in Multiple Efficiency Improvements and Tool Developments like A2L Extractor,A2L Generator,E-Hooks Generator.

**Automotive Infotronics ( Joint Venture between Continental AG & Ashok Leyland ), Chennai, India**  
**2010 Mar – 2011 Feb**

**GRADUATE ENGINEER TRAINEE**

- Model Development of Tire Configuration Computation Algorithm in LogiCAD-KIBES 32 for Intelligent Tire System Display Unit
- SW Development of Tell Tale Module,Power on Self Test for Cluster
- Black Box Testing for Integrated Body Control Module & Instrument Cluster
- Development of Various Screens and Integration of Screens with Logical Modules for ITS.

**SKILLS**

<b>MODELING TOOLS</b>	MATLAB Simulink Stateflow ASCET LogiCAD SciLab Octave	<b>PROGRAMMING LANGUAGES</b>	Python Perl VBA C Scala	<b>ECU TOOLS</b>	CANape CANalyzer INCA Provetech:TA T1 GLIWA dSPACE HiL ETAS Lab Car
<b>PROCESS TOOLS</b>	DOORS JIRA Confluence Track+ Mantis IBM ClearCase ClearQuest	<b>WEB TECHNOLOGIES</b>	HTML, CSS Javascript D3Js Git, SVN	<b>OPERATING SYSTEMS</b>	Windows Mac OS Linux Flavors

**LANGUAGE PROFICIENCY**

<b>DEUTSCH</b>	Basic Proficiency	<b>ENGLISH</b>	Fluent	<b>TAMIL</b>	Native
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**EDUCATION**

**Bachelor of Engineering, Electronics and Communication Engineering, 77%, 2004 - 2008**  
ANNA UNIVERSITY | Saranathan College of Engineering, Trichy, Tamil Nadu

**ACHIEVEMENTS**

- **Star Performer of the Year Award @ Mercedes (2017)** - Transmission Test Development Area
  - **Above and Beyond Call of Duty (ABCD) Award @ Mercedes (2015)** – Engine Sensor Tests
  - **One Time Achievement (OTA) Award @ BOSCH (2012)** – Conceptualization and Implementation of Data to Model(D2M) Converter
  - 10th Standard – 84% - **School Topper**
  - 12th Standard – 93%
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