

HiL Validation Engineer with over **8.5 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 Techniques | ✓ Project Coordination |

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
- Development of T1 GLIWA Automation for obtaining Multi core Controller Timing Measurement and Maximum CPU Load Measurement
- Developed Tool for HiL Plant Model Offline Parameterization
- Domain Know How on two major components of the Power Train – Engine and Transmission
- Leading and Coordinating a Test Automation Team of 10 Engineers in the Technical Front
- Multiple Onsite Assignments for Customer Coordination , International Cooperation, V Cycle Software Validation

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

- SW Model Development of Engine ECU Functions – Actuator Self Test, Torque Distribution/Reservation during Maximum Load, Idle Speed Control in MATLAB and ASCET
- Developed Multiple Tools – 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 Developed tools 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 Implementation of Tire Configuration Computation Algorithm in LogiCAD-KIBES 32 for Intelligent Tire System Display Unit
- Development of Various Screens and Integration of Screens with Logical Modules for ITS.
- Development of Tell Tale Module,Power on Self Test for Cluster
- Black Box Testing for Integrated Body Control Module & Instrument Cluster

PROFESSIONAL SKILLS

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

EDUCATION

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

LANGUAGE PROFICIENCY

DEUTSCH	Basic Proficiency	ENGLISH	Fluent	TAMIL	Native
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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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