

Vishnu Vasan N

8+Years | HiL Validation Engineer

vishnuvasan@vishnuvasan.com

+91-88611 94875

Bangalore, India

+ EXPERIENCE

Sep 2013 - Till Date



Mercedes Benz Research and Development India,Bangalore,India

Principal Engineer - Level 6 - Real Time HiL Test Development & Coordination

Onsite Assignment @ **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 |

Skills:

.NET, COM, VBA, C#,
Javascript, Python, HTML

HiL Setup:

dSPACE

- ◆ 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 Multicore Controller Timing Measurement and Maximum CPU Load Measurement
- ◆ Developed Tool for HiL Plant Model Offline Parameterization
- ◆ Domain KnowHow on two major components of the PowerTrain - Engine and Transmission
- ◆ Leading and Coordinating a Test Automation Team of 10 Engineers in the Technical Front
- ◆ ISTQB- Foundation Level Certified Tester
- ◆ Multiple Onsite Assignments for Customer Coordination , International Cooperation, V Cycle Software Validation

Feb 2011 - Sep 2013



Robert Bosch Engineering and Business Solutions,Coimbatore,India

Senior Software Engineer - ECU Application SW Model Development

Skills:

MATLAB - Simulink &
Stateflow, ASCET, C, Perl,
Python, Ruby

HiL Setup:

ETAS

- ◆ SW Model Development of Engine ECU Functions - Actuator Self Test, Torque Distribution/Reservation during Maximum Load, Idle Speed Control
- ◆ Development of Stateflow/State Machine Design 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
- ◆ Involved in Variant Specific Software Customization/Optimization based on System Architecture
- ◆ Been Instrumental in Multiple Efficiency Improvements and Developed tools like A2L Extractor,A2L Generator,E-Hooks Generator.

Mar 2010 - Feb 2011



Automotive Infotronics (A Joint Venture between Continental AG & Ashok Leyland),Chennai,India

Graduate Engineer Trainee - ECU Application SW Development/Testing

Skills:

Embedded C, LogiCAD -
KIBES, Gravis

- ◆ 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

+ IT PROFESSIONAL SKILLS

Modeling Tools	MATLAB Simulink Stateflow ASCET LogiCAD - KIBES SciLab Octave	Programming Languages	Python Perl VBA C , R Scala
ECU Tools	CANlyzer, CANape, VehicleSpy INCA Provetechn Test Automation Suite Softune Gravis dSPACE HiL, Control Desk ETAS Lab Car, RTPC	Process Tools	DOORS ClearQuest ClearCase JIRA Confluence Track+ Mantis Slack
Web Technologies	SVN, Git Js, D3Js HTML, CSS Django	Operating System	Linux Windows Mac OS
Open Source Projects	https://github.com/vishnuvasan		
Enjoys	Code/Model/Algorithm Development, Problems/Challenges Programming, Foraying into New Technologies/Directions Colloboration, Diversity, Openness, Camaraderie		

+ EDUCATION

2004 - 2008	Bachelor of Engineering - Electronics and Communication Engineering 77% - I Class Anna University/ Saranathan College of Engineering,Trichy, TamilNadu,India
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+ LANGUAGES

Languages	German	A1
	English	Fluent
	Tamil	Native
	Kannada	Intermediate

+ 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%**

+CONTACT

Current Address	Site No: 562, TR Muniswamappa Building, 1st Main, 6 th Cross, Ramagondanahalli Bangalore India - 560066		
Date of birth	November 9,1987 (30 years old)	Gender/Nationality	Male/Indian