

# Vishnu Vasan Nehru

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8+Years – Model Dev & Test Automation Engineer

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## +CONTACT

|                   |   |
|-------------------|---|
| Current Address   | Site No: 562, TR Muniswamappa Building, 1st Main,<br>6 <sup>th</sup> Cross, Ramagondanahalli<br>Bangalore<br>India - 560066 |
| Permanent Address | B10,New Housing Unit,<br>Mannargudi,Thiruvavur(D.t)<br>TamilNadu<br>India - 614001  |
| Date of birth     | November 9,1987 (30 years old)      Gender/Nationality      Male/Indian   |

## + EXPERIENCE

Sep 2013 – Till Date



### **Mercedes Benz Research and Development India,Bangalore,India**

*Senior Technical Lead – Real Time HiL Test Development*

Onsite Assignment @ **Daimler AG,Stuttgart,Germany:**

**2014:** Mar-Jun, Sep-Dec | **2015:** Mar-Jun, Oct-Dec | **2016:** Oct- Dec |

**2017:** Jan-Mar, Oct-Dec

- Test Automation Development/Testing for Sensor Diagnostic Functions - Engine ECU in Provetech:TA for dSpace HiL Environment
- Test Automation Development/Testing for Transmission ECU Functions and Maximum CPU Load Measurement
- Developed Real Time Automation Tests in Multi Core Architecture for Real Time Multiple ECU Interaction/Environment
- Developed Multiple Generic Libraries and distributed across the Internal Test Automation Community for better Efficiency
- Effective Communication/Coordination with Function Developers over Test Requirements/Specifications
- Utilized lot of Functional Programming concepts and Developed multiple Tools in Multiple Languages like VB Script, VBA, Perl, Javascript etc.,
- Multiple Onsite Assignments for Performing Validation of V Cycle SW Releases for all Daimler Engine/Transmission Sws
- Leading a Test Automation Team of 7 Engineers
- ISTQB- Foundation Level Certified Tester

Feb 2011 – Sep 2013



### **Robert Bosch Engineering and Business Solutions,Coimbatore,India**

*Senior Software Engineer – ECU Application SW Model Development*

- SW Model Development of Engine ECU Functions in ASCET- Actuator 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 directly to ASCET Models without human Intervention and received accolades
- Involved in Integration of Customer Specific AUTOSAR Functions into ECU SW and also 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 etc.,

Mar 2010 - Feb 2011



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

Graduate Engineer Trainee - ECU Application SW Development/Testing

- 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<br>Stateflow<br>ASCET<br>LogiCAD - KIBES<br>SciLab<br>Octave   | Programming Languages | C<br>VBA<br>R<br>Perl<br>Python<br>Scala |
| ECU Tools            | Provetech Test Automation Suite<br>INCA<br>CANlyzer, CANape, VehicleSpy<br>Softune<br>Gravis<br>dSpace HiL, Control Desk<br>ETAS Lab Car, RTPC                                   |                       |  |
| Other Skills         | SVN, Git<br>Js, D3Js<br>HTML, CSS<br>Django  | Operating System      | Linux<br>Windows<br>Mac OS               |
| Open Source Projects | <a href="https://github.com/vishnuvasan">https://github.com/vishnuvasan</a>  |                       |  |
| Enjoys               | Code/Model/Algorithm Development, <b>Problems/Challenges</b><br><b>Programming, Foraying into New Technologies/Directions</b><br>Collaboration, Diversity, Openness, Camaraderie |                       |  |

**+ EDUCATION**

|             |   |
|-------------|---|
| 2004 - 2008 | <b>Bachelor of Engineering - Electronics and Communication Engineering</b><br>77% - I Class<br>Anna University/ Saranathan College of Engineering, Trichy, TamilNadu, India |
|-------------|---|

**+ LANGUAGES**

|           |   |
|-----------|---|
| Languages | <b>German</b> - A1<br><b>English</b> - Fluent<br><b>Tamil</b> - Mother Tongue |
|-----------|---|

**+ ACHIEVEMENTS**

- Awarded **Star Performer of the Year @ Mercedes (2017)** for work in Transmission Test Development Area
- Awarded with **Above and Beyond Call of Duty (ABCD) @ Mercedes (2015)** for Work in Sensor Tests and received Multiple Accolades in Multiple occasions
- Awarded with **One Time Achievement (OTA) Award @ BOSCH (2012)** for Implementation of Data to Model(D2M) Converter
- **School Topper** in 10<sup>th</sup> Standard with **84%**
- Secured **93%** in 12<sup>th</sup> Standard