CV Yadnyesh Bhangale

System Test Engineer (Automotive)

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Profile

- +7 years of experience in Embedded System/Software Testing, Test setup and Test Analysis (R&D) with leading automotive multinational.
- Expertise in Setting up HIL systems for testing of complex Embedded control systems with excellent troubleshooting skills.
- Experience with Automated test scripting and execution for CI/CV purposes and functional tests.
- High amount of experience in Black Box and Gray Box testing @ HiL/SiL and Bench test.
- Proficient in Analysis of ECU data output based on Electronic Brake System knowledge.
- Excellent Issue reproduction skills from field on bench level.
- Technical Automotive domain knowledge in Braking systems.
- Knowledge and experience in testing of BUS communication protocols such as CAN, Flexray, LIN at application level.
- Always trying to identify innovative approaches to work style.
- **Excellent verbal, written** technical and business **English**.
- Admired for well organized and user friendly documentation and tutorials.
- Basic Project Management, Client interaction, Cross cultural networking.

Professional Experience

Continental Automotive Components India Pvt Ltd. (VEhicle Dynamics)

Jan 18- till date	**Summary : Module Lead, System testing @ HiL/SiL/Bench** ● **Creation of an Test Automation solution** for Continental Specific HiL via VB.net. ● Automated test scripting via Jenkins for Continuous Integration demands at SiL environment. ● Black/Graybox Testing at System and **subsystem** level for Electronic Braking system products. ● **Analyzing Requirements** of Internal Subsystem Requirement documents and creating test cases. ● Manual testing on Lab Bench, SiL and HiL environments. **Highlights :** VED Test Engineering "**Key User**" for location Bangalore and Recognized as VED Global level 2 Expert.
August 16 - Dec 17	**Summary : Module Lead, Experience based test, Test Analysis, Team Management and Closed Loop Simulation** ● Transfer of Vehicle level System tests(Failsafe, Diagnostics and Man machine Interface) to HiL environment for Asian OEMs including test selection for various abstractions. ● Defining team related processes via close coordination with department teams and overseas internal customers from Europe, Japan and China. ● Create Automation of tests on IPG HiL systems. ● **Closed loop Simulation setup** creation on IPG Carmaker HiL environment. **Highlights :** Awarded with VED, Technical Center India **Star performer** for the Quarter for Q1'17.
July 14 - May 16	**Summary : Experienced based test and Automated BUS Release tests @HiL** ● Testing of Electronic Braking system for a Swedish OEM project including release and new development tests at Closed Loop HiL environment. Responsibility of regular update of HiL system based on new Vehicle builds and variants (BUS/ Variant coding updates) ● Build base automation test scripts in C for a new test strategy related to "**BUS TX Signal Situation tests**". ● Intermittently responsible for **diagnosing production issues at customer location** (Indian OEM). ● Took opportunity to perform IO Check tests for an Indian OEM at customer location. **Highlights :** 3 months work experience at VED base location, Frankfurt on experienced based test for Swedish OEM project.

June 12 – June 14	**Summary : Automated BUS release testing @ HiL** ● Part of 2 month long Continental India Corporate Entry training program. ● Embedded Software testing : Analyzing the SW requirements of Customer product specification and the internal Vehicle BUS Requirements specification. ● Creating Test Scripts for CAN related automated tests mostly at application level using **black box** techniques. **Highlights:** Nominated as Star of the month (Technical Center India)

Visteon Technical and Services Center, Chennai, India (Student Intern)

Sep 11 – May 12	**Project : Automated Multimedia Product testing** ● An automated approach for testing of multimedia products was developed. The quality of the testing was improved by incorporating various testing parameters like Display screen, CAN messages and audio output testing. This approach to testing decreases the amount of time required to develop a CAPL test script. ● Test tool developed in VB.net to automatically test the ID3 tags send via CAN protocol (flow control) in various Chinese/Japansese fonts.

Trainings

- ISTQB Foundation level - CTFL
- IPG Carmaker with Hil Add on
- Dale Carnegie Leading Self Program
- 3 Months **advanced training** at Continental, Iasi, Romania related to system test process and test scripting for Continuous Integration for highly sophisticated VED products.
- 3 Weeks HiL simulation setup training at Continental, Shanghai (VED HiL system).
- **6 months advanced training on closed loop HiL simulation** and **Automated testing** at Continental Teves, Frankfurt, Germany. (IPG HiL system).
- **3 months advance Closed loop testing (manual test) training** at VED base location, Frankfurt.

Education

- Master's Degree in Automotive Electronics from VIT, Vellore, India with Gold Medal honour (CGPA 9.36/10).
- Bachelor's degree in Electronics Engineering from NMIMS, Mumbai, India (CGPA 3.51/4)

Computer Software Skills

Tools	IPG Carmaker Usage and Programming. Jenkins Eclipse (for C++) Measurement and Data analysis packages Usage of special Hardware like Data Acquisition system, **HIL**(Continental specific and **IPG**) Vector **CANAlyzer**, **CANoe**. **CAPL** Scripting. Use of Configuration Management tools : **MKS**, **Git** ; Microsoft Office 365
Languages	Embedded C, C++ programming, VB.net, **Python**, **PyQt**, Excel VBA, Carmaker MiniManoeuver

Personal Details

DOB	17-Oct-1988
Languages Known	English (Fluent) , German (Very Basic)