Ankit Vijay

System Test Specialist and HiL Execution Engineer

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Skills

- Automation Testing
- Manual Testing
- Requirement gathering
- Functional and regression testing
- Test case preparation and review
- Test execution
- Hardware Commissioning
- Plant Modelling
- dSPACE
- Optimization
- Machine Learning
- Data Structures
- V model
- HIL
- ISO 14229 UDS Diagnostics
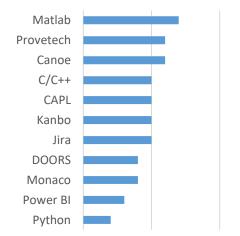- ISO 11898 CAN bus

Certificate and Training

ISTQB Certified

Automotive Basics

Matlab Simulink Stateflow

Tools

Matlab, Provetech, Canoe, C/C++, CAPL, Kanbo, Jira, DOORS, Monaco, Power BI, Python

Hobbies

Tennis　Movie　Swim　Drive

Professional Experience

➢ Daimler Truck Innovation Center India — 2020-Present

System Test Specialist : System Integration Lab

- **Test campaign execution** for Daimler city and coach buses
- **ADAS** standalone model creation with real VRDU and simulated sensors
- **CRC** checks and timeout and data error debug
- **System** responsible : **DTCO** (Digital Tachograph), **LEX** (Lighting exterior), **VIEW**, **PSSR** (Passenger Service Stop Request)
- **Debugging** dSpace HiL, vehicle test logs and DTC's
- **ECU** flashing, **FUP** LogiCAD simulations, Fault simulations
- **Commissioning** activities including I/O mapping, pin configuration, etc.
- **ICUC** lamps check and compared in NI vision (image processing)
- **CAN** messages and frames check in Vector Canoe
- **Test specs** scripts and libraries written in Provetech and in excel
- **Plant model** updates and Build creation in Matlab and Configuration Desk.

➢ Mercedes Benz Research & Development India — 2016-2020

Earlier Project : DIVe (Digital Interdisciplinary Vehicle)

- **OBD and engine performance analysis** of Motor control (MCM) ECU
- **Different driving profile** (WHTC, PEMS cycle, WHSC, etc.) were simulated
- **Verified** the new software and the calibration releases
- **Developed an automated tool** for all the post processing calculations of DIVe simulations with various quality checks approved
- **Fault induced** simulations of different Monitoring Units
- **Virtual calibration** simulations to get the right calibration data

Earlier Project : OBD and Margin Analysis

- **Margin Analysis** for various monitoring units of an After Treatment Control (ACM) ECU
- **Matlab GUI** tool development for calibration optimization
- **Cluster** different driving profile for a vehicle using Machine Learning
- **Automate** the complete Margin report generation process

Academics

M.Tech. : Indian Institute of Technology, Bombay — 2016
Control and Computing
Thesis: Estimating markov chain averages using stochastic
Key points: Reinforcement learning, Markov chain, Monte Carlo
Project: DC motor position control using L293D and Arduino Mega

B.Tech. : Rajasthan Technical University, Kota — 2013
Electrical Engineering

12th : LBS Sr. Sec. School, Kota — 2008

10th : Emmanuel Mission School, Kota — 2006

Achievements

Departmental Bronze award

- Spot award for excellent contribution in project — 2022
- Identifying windshield heating defect — 2022
- Automation process and efficiency improvement for DIVe simulation — 2020
- **GATE** All India Rank **46** — 2013