

# Gurukrishna Vadlamudi

## Automotive Test Engineer

Via Prenestina, 66,00176, Rome, Italy (Willing to relocate)

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## ABOUT ME

I am an experienced Automotive Test Engineer with **3+** years specializing in testing and validation of infotainment systems. Skilled in troubleshooting, ensuring compliance with industry standards, and enhancing user experience through rigorous testing methodologies. Passionate about automotive innovation and I'm dedicated to making a valuable contribution in the automotive field.

## TECHNICAL SKILLS

### Automotive Testing Tools

### Programming

### Model Based Design

### Communication Protocols

### Diagnostic Protocols

### Automation Framework

### Configuration & requirement management tools

### Methodologies

### Other Tools

### Other Skills

### Operating Systems

### Certifications

Vector CANoe, Trace32 Debugger, AUTOSAR (Basic)

MATLAB, CAPL, Python (Intermediate), Basic C, C++

Simulink

CAN, LIN, Ethernet, MOST, K-line, CAN-FD

UDS, J1939

Selenium, Robot (Basic)

IBM DOORS, Gitlab

Agile, V-Model, Waterfall

Wireshark, ANDi, Flashing (OTA, USB, vFlash), VKMS, HMI

Jira, Confluence, MS Office Suite, STLC, SDLC

Windows, Linux

ISTQB Foundation level, Master CAN Protocol (CAN+, CAN-FD)

## SOFT SKILLS

Optimizing mundane tasks, Adaptability, Proactive, Detail Oriented, Team player

## WORK EXPERIENCE

**System Test Engineer – Daksha Consultancy B.V.**

**Eindhoven, Netherlands**

**Client: DAF Trucks**

**Feb 2023 – Jun 2024**

- Accuracy in confirming the functionality of the radio, USB, Bluetooth, Car Play, Android Auto, quiet mode, valet mode, navigation, and voice recognition.
- Undertook drive and stationary vehicle testing, as well as stress tests throughout the course of the night and weekend.
- Identifying testable requirements from SYRS. Performed smoke testing on bench and hands-on experience in using Vector CANoe and in CAPL scripting.
- Raised tickets and done report in Jira after smoke test plus performed regression test (Retesting) after every software release.
- Flashed the software into the Head unit and updated the ECU through USB stick flashing and Over the Air (OTA) (Remote update).
- Gathered logs from the vehicle and test bench plus involved in coding for ECUS. Delivering the results in Version Management Tool (GIT).

### Projects:

- **CAN over BroadR-Reach**

**Used Technical tools:** CANoe, CAPL, ANDi, Wireshark, Test Bench Setup, ECU Gateway, Ethernet, Python

- **Steering Wheel Switches**

**Used Technical tools:** CAN, LIN, UDS, CANoe, CAPL, Flashing (OTA, vFlash), Jira, logging, VN1630A

**Research Fellow – Sapienza University of Rome**  
**School of Aerospace Engineering – Flight Mechanics Lab**

**Rome, Italy**  
**May 2022 – Dec 2022**

- Created Simulink models to control space craft and designed magnetorquers, accelerometers and gyros in Siemens NX.
- Analyzed data, simulated results, Visualization about 65% in rocket trajectory dependencies using Ansys Simulation and MATLAB Scripts and Simulink models.

**Project:** Numerical Simulation of a rocket re-entering using Aerodynamic Actuators

**Used Technical Tools:** Simulink, MATLAB, Siemens NX, Ansys

**Validation Engineer – HCL Tech**

**Hyderabad, India**  
**May 2017 – Sep 2018**

**Client:** Ford

- Updated software via USB, WIFI (FOTA), Identifying testable requirements from SYRS. Detailed requirement study and testing of the Head unit. Immersed knowledge in STLC and SDLC.
- Developed CAPL script as per customer requirements and implemented them in ECU and validating by using vector Canoe simulation tool.
- Involved in Agile Process and Understanding Features and associated requirements and verified the requirement features and moving to the next stage of maturity.
- Troubleshooted both S/W & H/W related issues and done Smoke, Sanity, Regression and Retesting.
- Hands on experience in a Software update, Media, Telephony (Dialer), Voice recognition, Navigation, Android Auto, Car-play, Bluetooth, Vehicle Setting Comfort modules.
- Expertise in writing test case design, validation, and Defect analysis of Infotainment module with software involving CAN, LIN, FLEXRAY, ETHERNET, UDS, J1939 protocols.
- Investigated failed test cases and created and tracked the incident report in Jira.
- Experience with Audio/Video management (processing, MOST/A2B/DTCP/HDCP protocols).

**Projects:**

- **Online Remote Update (VW), IAV(Ford) and Navigation (VW)**
- **Wireless Power Charger**

**Used Technical tools:** CANoe, LIN, Flashing (OTA, USB, vFlash), VT System, VN1630A

## EDUCATION

**Master of Aerospace Engineering** from Sapienza university Rome, Italy

**Oct 2018 - Sep2022**

**Bachelor of Mechanical Engineering** from JNTUK, India

**Jun 2013 – Apr 2017**

## LANGUAGES

**English, Italian [A2], Dutch [A2] and German [A1 certified]**

## ACCOMPLISHMENTS

- Successfully improved test coverage by **30%** through the development of automated test scripts, leading to a significant reduction in defect leakage.
- One of my Achievements is my ticket success ratio is more than **91%**