SHEETAL LAXMAN PAVASKAR

Verification & Validation Engineer | Automotive | ADAS | Embedded Systems

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PROFESSIONAL SUMMARY

Automotive Verification & Validation Engineer with **2.8 years of hands-on experience** in Embedded Software Testing, ADAS validation, diagnostics testing, CI/CD-based automation, and system-level testing. Experienced with **CANoe, vTestStudio, Jenkins, CAPL, Python, DOORS, JIRA, RQM, DNG**, and automotive protocols including CAN, CAN-TP, Automotive Ethernet, and UDS. Strong exposure to **ASPICE, V-Model, Functional Safety, Agile**, and industry-grade validation processes. Skilled in test design, execution, debugging, and defect management for complex ADAS ECUs.

CORE TECHNICAL SKILLS

Testing & Validation:

- System Testing, Functional Testing, Regression Testing,
- Requirement-Based Verification, Test Case Design, Test Execution,
- Log Analysis, Defect Reporting, Debugging

Automotive Tools:

- **CANoe (11.0 SP1 to 16.0 SP3)**
- **vTestStudio (Test Sequence Diagram, Test Table Methods)**
- ECU Diagnostics Tools: UDE Flash, T32
- System & Test Management: DOORS, DNG, RQM, RTC, ALM
- Defect/Workflow Tools: JIRA, Bitbucket

Automation & CI/CD:

- Jenkins, Git CI/CD
- Automated Test Execution Pipelines
- Robot Framework (basic), EcuTest (basic), vTestStudio automation

Programming / Scripting

- CAPL (Execution & Basic Development)
- C (Basics)
- Python (Basics)

- Bash/Shell (Basics)

Protocols & Standards

- CAN (ISO 11898)
- CAN-TP (ISO 15765-2)
- UDS (ISO 14229)
- Automotive Ethernet (IEEE 802.3)
- ASPICE, V-Model, Test Life Cycle, Defect Life Cycle, Functional Safety

Hardware Tools

- Vector Hardware: VN1670, VN5650
- Programmable Power Supply
- ECU Flashing Tools: UDE, T32

PROFESSIONAL EXPERIENCE:

Bosch Global Software Technologies, Bengaluru
Associate Software Engineer → Engineer (Jan 2023 – Present)

Key Responsibilities:

- Performed system-level V&V testing for ADAS and embedded ECUs.
- Conducted requirement analysis and derived test scenarios using DOORS, DNG.
- Designed, reviewed, and executed test cases for SYS/SW testing.
- Automated execution using vTestStudio, Python, and Jenkins pipelines.
- Executed diagnostics testing using UDS services, CAN, CAN-TP, and Automotive Ethernet.
- Performed ECU flashing using UDE Flash, DASY Flash, T32, and validated software builds.
- Conducted log analysis and raised defects in JIRA.
- Collaborated with feature owners for requirement reviews and defect triage.
- Adhered to ASPICE processes and Agile Scrum ceremonies.

PROJECTS

1. MPCI – Modular Power Computer Interlayer (ADAS Platform)
- Tools: CANoe, vTestStudio, DOORS, DNG, RQM, RTC, Bitbucket, Jenkins
- **Responsibilities:** Requirement-based functional testing, automation in vTestStudio, log analysis, defect reporting, ASPICE compliance.

2. ADAS L4 System Integration & System Testing
- Skills Used: Python automation, CAPL, CANoe, Docker, Jenkins
- Responsibilities: System testing of L4 ADAS functions, automated validation pipelines.

3. MPCI – Inter-blade Communication Testing
- Validated communication over CAN and Ethernet between multiple ECUs.

EDUCATION

Bachelor of Engineering (Electronics & Communication Engineering)
Sahyadri College of Engineering (2018–2022)

CERTIFICATIONS

ISTQB Foundation level certified

DECLARATION

I hereby declare that all information provided above is true to the best of my knowledge.