

NITHISH B

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Verification and Validation Engineer



Summary

Experienced Verification and Validation Engineer in the automotive industry with expertise in vehicle diagnostics, telematics, ECU flashing, bootloader flashing, and OS flashing. I excel in developing and executing test plans to ensure compliance with industry standards while enhancing product quality. My collaboration with cross-functional teams delivers reliable automotive solutions. A flexible and dedicated professional, I am eager to learn and contribute to team success.

Experience

Validation Engineer Harita Techserv Limited via TVS Motor via Prical

Coimbatore

Dec 2024 – Current

- **Vehicle Diagnostics and Telematics Specialist:** Experienced engineer in vehicle diagnostics and telematics systems. Skilled in testing, debugging, and validating diagnostic tools using protocols like CAN, UDS, and OBD. Hands-on with telematics software maintenance, device integration, and troubleshooting to ensure reliable system performance.
- **ECU and Bootloader Flashing:** Expert Proficient in ECU flashing, bootloader development, and firmware updates. Experienced in OS flashing, secure software downloads, and debugging flash memory issues. Skilled in version control, post-flash verification, and using industry-standard tools for programming and system monitoring.
- **Firmware and OS Flashing Specialist:** Expert in firmware and OS flashing for automotive and embedded systems. Experienced in flashing microcontrollers, ECUs, and telematics devices while ensuring stability and reliability. Strong in troubleshooting, bootloader mechanisms, and secure software installations for seamless system performance.

Verification and Validation Engineer Autopeepal Technologies Private Limited

Pune

Jan 2024 - Aug 2024

- **Vehicle Diagnostics:** Check and troubleshoot diagnostic software, inspect and repair diagnostic tools, and resolve vehicle and diagnostic system issues.
- **Telematics:** Ensure Telematics software functions properly, maintain and repair Telematics devices, and resolve Telematics system issues.
- **Proficiencies:** Skilled in diagnostic communication protocols (UDS, CAN, OBD), microcontrollers, and related tools.

EDUCATION

M.Sc Electronics and Instrumentation

- Bharathiar University, Coimbatore
- Year of Passout 2022
- Percentage 77%

B.Sc. Electronics and Communication

- KSR College of Arts and Science, Thiruchengode
- Year of Passout 2020
- Percentage 69%

Higher Secondary School

- Cheran Matric Higher Secondary School, Karur
- Year of Passout 2017
- Percentage 54.3%

Secondary School Leaving Certificate

- Cheran Matric Higher Secondary School, Karur
- Year of Passout 2015
- Percentage 70.4%

TECHNICAL SKILLS

- Programming Skills: C, C++, Embedded C
- Controllers: RL78, STM32, ESP32
- Tool:CS+, STM32Cube IDE, Proteus 8,PCAN View
- Communication Protocols: UART, SPI, I2C
- Knowledge in CAN Protocol and UDS protocol
- Telematics, vehicle on-board diagnostics and ECU reprogramming

ACADEMIC PROJECTS

- Project on Car Accident Detection using Arduino.
- Project on Face Mask Detection using Microcontroller.

TRAINING PROJECT

- Car collision detection system with GPS and DS1307 using CAN protocol.

COURSE

- Institute: SmartCliff Learning Solutions, Coimbatore.
- Course: Automotive Embedded Software and duration 4 months.
- Course: Udemy - Android Application developer with Core Java and learning currently.

CREDENTIALS

- NPTEL certification on "Principles of Modern CDMA / MIMO / OFDM Wireless Communications"

EXTRA-CURRICULAR ACTIVITIES

- Record achievement certificate - "World's biggest international hand on IoT & Ethical Hacking Workshop" and "World Record holder"
- National Hands-on Training - "Smart Home and Industrial Automation using IOT with Arduino"

DECLARATION

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

NITHISH B