

Saikrishna Nampelly

Embedded software Engineer

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Professional Summary:

- Skilled Embedded Software Engineer with 4.2 years of Experiences in designing, developing and testing in Embedded Software applications in Automotive domain.

Professional Experience:

Embedded software Engineer, L&T TECHNOLOGY SERVICES (2021 - Current) | Client BOSCH, India

- Currently Working as Software project Developer (SWPD) in BS6 projects for commercial Vehicles and Off High-Way Vehicles.
- Working experience on AUTOSAR ASW (Application software layer) Configure Management According to ASPICE/ISO26262 Standards.
- Strong understanding of microcontroller architecture, communication and peripheral interfaces. (CAN, TIMERS, INTERRUPTS, GPIO, ADC, DIO, PWM).
- Worked on Various requirements-based development by Manual coding and auto-coding (ASCET).
- worked on Labcar testing in HIL for Developed software functions and validations and Execute Test Cases Based on Requirements and Scenarios.
- Hands on experience in C programming, CAN and UDS Protocol (UDS ISO-14229).
- Trouble shooting of Customer reported concerns and providing software fix.
- Good Testing Experience-Usage of Test cases & Communication Equipment Like CANoe, CANalyzer.
- Engaged in understanding new customer requirements and Validation/Verification of requirements.
- Experience in software development life cycle and handling of software configuration Management tools.

Technical Skills:

- **Programming Language:** C, Embedded C.
- **Protocols:** UDS, CAN, SPI, I2C, UART.
- **Primary Skills:** HIL Testing, Automation Testing, SDLC(V-Cycle), IBM- DOORS, Requirement Analysis, Test case Development.
- **Tools:** Can analyzer, Canoe, Can diagnostics, UDE Debugger, PCAN, ECU Works, ETAS_INCA, RQ1, SDOM, CI dashboard, IPE.

Project Experience:

- **Project Name:** Mahindra&Mahindra BS6 Projects for EMS
- **Project Tools:** CANalyzer, ECU Works, ETAS_INCA, UDE debugger, PCAN, ASCET, SDOM, CI-Dashboard, Provisor, IPE and RQONE.
- **Customer:** Mahindra&Mahindra – Commercial Vehicles and Off High-way vehicles
- **Client:** Bosch Global Software Technologies

Roles and Responsibilities:

- Understanding and analyzing the requirement of task.
- Performed Base function Test (BFT) for all software versions using open loop Labcar in HIL.
- Developed Various functionalities and utilizing model-based design with ASCET for Manual code generation.
- Worked in CAN Frame Development (Transmit and Receive frames) and UDS/ISO-14229 DID implementation and RDBI and WDBI DID validation and testing.
- Resolving MISRA warning and DAMOS errors fix as per guidelines.
- Process Closure for Development/Series Green Release Software.

Professional Experience:

Embedded Hardware Engineer, Sukhila power Electronics (2019-2021) Hyderabad.

- Worked as Embedded Hardware Testing engineer which supply Integrated power supplies for Signal and Telecommunication Dept of Indian Railways. Depends on the power regulator and DC-DC Converter the signal will be transferred to station master and update through the signal.

Roles and Responsibilities:

- Understanding and analyzing the requirement of task.
- PCB testing and rectifying the issue with problem solving accordingly.
- Soldering the hardware components in the PCB board according to design.
- Uses machines, Oscilloscope, small power tools, voltage meters and testing equipment to assemble and test product.

CERTIFICATES:

- Embedded System Training Course in Erotect Solutions, Hyderabad.

Educational Qualification:

- Bachelor of Technology (EEE) - Ganapathy Engineering College 2019 with 6.0 CGPA.
- DIPLOMA (EEE) - VMR polytechnic 2016 with 7.0 CGPA.