Adarsh S Shetty

Embedded Software Engineer | AUTOSAR BSW | Diagnostics | CAN

Bangalore, India • +91 9902147440 • adarshshetty5555@gmail.com
linkedin.com/in/adarsh-s-shetty

PROFILE

AUTOSAR BSW specialist with 4+ years configuring COM, Diagnostics, and I/O stacks for Tata and Hyundai OEM programs. Proven track record: 300+ CAN frames validated, consistent green-release delivery sustained, and critical field escalations resolved within 24 hours. Deep expertise in UDS (ISO 14229), MISRA-C, and ASPICE-compliant requirement traceability. Backed by hands-on lab-car and vehicle-level validation experience.

WORK EXPERIENCE

Embedded Software Engineer

Bosch Global Software Technologies · Bangalore Jan 2024 – Present

- Drive AUTOSAR BSW module integration, testing, and debugging (COM Stack, Diagnostics Stack, I/O Configuration) across 6 concurrent OEM passenger and commercial vehicle programs (Tata Punch, Tigor, Curvv, Sierra, Intra, Ace).
- Deliver weekly software packages with consistent green-release status, developing and validating 300+ CAN frames for ECU flashing and diagnostics using Vector CANalyzer.
- Validate charging diagnosis and I/O pin functionality through hands-on lab-car and vehicle-level testing, and configure AUTOSAR modules in DaVinci Configurator to catch integration defects before release.
- Manage requirement traceability and ASPICE compliance end-to-end using DOORS, RQ1, and IPE, sustaining audit-ready MISRA-C compliance across all BSW deliverables.
- Implement and validate UDS diagnostics (ISO 14229) and contribute to ISO 26262–aligned development and testing for safety-related ECUs; resolve cross-functional CAN diagnostics escalations across Tata OEM programs to protect release timelines.
- Direct department-wide training on SIL workflows, standardizing model- and software-level validation practices and shortening new-hire ramp-up time across the team.

Associate Embedded Software Engineer

Bosch Global Software Technologies · Bangalore Oct 2022 – Dec 2023

- Integrated, tested, and debugged embedded software for Hyundai Gasoline Lambda and Diesel engine control programs, catching requirement-mismatch defects early through rigorous manual and model-based code review.
- Executed unit and functional testing across successive engine software releases, maintaining spec-to-implementation alignment for Korean OEM platforms.
- Resolved field and integration escalations through root-cause debugging with INCA, UDE, and Vector CANalyzer, closing one critical escalation within a single day to protect delivery timelines.

NOTABLE ACHIEVEMENTS

- Departmental Award — recognized for consistently strong execution of green-release activities.
- Resolved a critical field escalation within a single day, protecting the program's delivery timeline.
- Sustained consistent green-release status across 6 concurrent OEM programs while validating 300+ CAN frames.

EDUCATION

Bachelor of Engineering, Electronics & Communication Engineering 2018 – 2022

Mangalore Institute of Technology & Engineering · Mangalore — CGPA: 8.9

Key coursework: Embedded Systems, Microcontrollers, Control Systems, Signal Processing, Computer Networks.

SKILLS

Embedded Development: Embedded C, AUTOSAR BSW (COM Stack, Diagnostics Stack, I/O Config), Model-Based Development (ASCET, MATLAB), RTOS Fundamentals.

Requirements & Compliance: Requirements Engineering (DOORS, RQ1), MISRA-C, ASPICE Compliance.

Protocols & Hardware: CAN, CAN FD, UDS (ISO 14229), SPI, UART, I2C, ARM Microcontrollers, Automotive Ethernet, SOME-IP.

Tools: Vector CANalyzer/CANoe, Rational DOORS, RQ1 ClearQuest, ETAS Tools, UDE, INCA, TRACE32, DaVinci Configurator.

Testing & Process: TPT, Synopsys SIL, HIL, Lab Car & Vehicle Testing, ASPICE, ISO 26262 Functional Safety, CI Build & Compiler Tools.

Languages: English (Professional working proficiency), Hindi (Fluent), Kannada (Native speaker).