

Kamlesh Patel

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CAREER SUMMARY:

Functional Safety Engineer and Software Developer with 4.6 years of experience in Application SW and Base SW development for Hybrid Vehicles. Currently working on HV battery management system functional safety development on system level and software level as per ISO26262.

Experience Summary:

- Working on **Technical Safety Concept and Technical Safety Requirement** development for HV Battery management System as per ISO26262.
- Worked on **Level2 SW development for Battery management System** as per **ISO26262** and responsible of Basic Component (BC)
- Proven understanding on **MATLAB, C/C++ coding**.
- Experience on **Functional Safety Management plan development and Safety case derivation** as per ISO 26262.
- Experience on **SW tool qualification** as per ISO26262.
- Good Hands-on Experience in **Vector CANdb ++**
- Expertise in **HARA analysis as per ISO26262-3** and **Functional Safety Concept and Functional safety requirement** development using FTA analysis, As per **ISO26262-4 Technical Safety Concept & Technical Safety requirement** development, As per **ISO26262-6 development of software safety requirements**.
- Experience in Safety Analysis like design **FMEA using FMEA IQ tool ,DFA,FFI** at SW architecture level as per ISO26262.
- Knowledge of MIL and SIL based testing and Experience in **HIL** testing.
- Knowledge of ADAS feature and functionality.

WORK EXPERIENCE

Client: FEV India pvt Ltd., Jaipur (BATTERY MANAGEMENT SYSTEM)

Duration: July 2022- present

Role: Project Engineer Areas worked:

- Experience in Safety Goal creation using HARA and using FTA analysis development of Functional Safety Concept as per part 3 of ISO26262.
- Experience in Technical Safety Concept & Technical Safety requirements development as per part 4 of ISO26262.
- Experience in Software safety requirements development and verification as per Part 6 of ISO26262.
- Supported on Hardware Software interface specification as per Part 5 of ISO26262.
- Experience in Functional Safety Management [Development Interface Agreement, Safety Plan and Safety case] as per Part 2 of ISO26262.
- Experience in SW tool qualification for safety life cycle as per part 8 of ISO26262.
- Experience in Functional Safety compliance review as per part 8 of ISO26262.
- Experience in Configuration management, Verification management, Change management and Documentation management as per part 8 of ISO26262.
- Supported on Safety Analysis [FMEA and DFA] at SW architecture level as per part 6 and part 9 of ISO26262.

Tools: Visio, Microsoft office, FMEA IQ, In-step, SVN.

Working as Associate Software Engineer since July-2019 to June-2022.

BOSCH GLOBAL SOFTWARE TECHNOLOGIES PVT. LTD., (BGSW), BENGALURU INDIA

Client: Robert Bosch Battery Systems GmbH

Duration: July 2019 – June 2022

Role: Software Developer

Responsibilities:

- Basics Model Based development using ASCET tool Worked on Level2 SW development for Battery management System as per ISO26262.
- Model Based Development
- Involved in Concept and Design Review
- Skilled in team management and coordination
- Unit Testing using TPT &DLL and TPT &ELF &UDE, CANoe and INCA
- Analysis and algorithm development for BMS
- Proficiency in Rhapsody Model Manager

Tools : ECU.WorX, ASCET, INCA, CANoe, SDOM, HERMES (Repository by Vector), DOORS, Rhapsody, WinRTM (Resource Measurement), GLiWA and ASCET+TPT etc.

Awarded: Best LLBP contributor.

EDUCATION:

- B. Tech (Electrical)- Lovely Professional University -2019
- 12th(RBSE)-Apex Senior Secondary School, Jodhpur, Rajasthan-2014
- 10th(RBSE)-Alok Senior Secondary School, Jodhpur, Rajasthan-2012