

Akhil Kummarikuntla
Embedded Software developer
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Experienced Embedded Software Developer with 3 years of expertise in model base development for embedded systems with a strong Interest in Electric vehicle and technology.

EXPERIENCE:

HCL TECH(Client Robert Bosch) 2021- Present

Project #1 - EHB(Electric Hybrid battery - Power training software Developer) 2021 - Present

I Have taken an Embedded system course in Vector India Ltd for 6 months.

Contributed to Model-Based Development and Testing for electric vehicles, including the development and implementation of customer information models for clients such as Volkswagen, Honda, PIAGGO, Mahindra, and RECAR. Leveraged data from DOORS to integrate with the ASCET tool, enhancing customer information management and operational efficiency. Skilled in software testing for electric vehicle DCDC converters, with a strong transition from manual to automation testing using TPT+INCA, and currently utilizing ECU test tools and CANoe. Specialize in high-voltage hybrid systems, including full hybrids and plug-in hybrids, with expertise in testing high-voltage batteries and electric motors. Proficient in generating detailed test reports, analyzing requirements, developing test cases, executing tests, and reporting defects. Knowledgeable in ASCET Model, SWMS Requirement Documents, and source code testing.

ROLES AND RESPONSIBILITIES:

Development:

- Designed and developed customized customer information models according to specific client requirements.
- Documented detailed project requirements, design choices, and implementation specifics for clarity and future reference.
- Implemented rigorous unit testing procedures to validate model functionality and preemptively identify potential issues.
- Facilitated regular stakeholder meetings and reviews to gather feedback and maintain alignment with project objectives.
- Ensured adherence to industry standards and best practices throughout the entire development lifecycle.
- Leveraged the DOORS platform to manage and extract diverse customer requirements and specifications.
- Utilized the ASCET tool proficiently to create accurate and functional models based on extracted customer information.
- Collaborated effectively with cross-functional teams to ensure smooth integration and optimal performance of developed models.

Testing:

- Analyzing Requirements
- Developing test cases based on ASCET Model, SWMS Requirement Document, and Source Code
- Performing online testing (TPT + UDE)
- Performing offline testing (TPT + ASCET)
- I have tested UEKO Check testing (final software for Safety relevant testing)
- Conducting CTC Instrumentation and Calibration
- Unit Testing, Software-Software Integration Testing and Regression Testing
- Generating Test Results, Test Summary Report, and Code Coverage Report
- Problem Reporting and Defect Reporting
- Participating in Peer Review and PDC (Pre-Delivery Check)
- Handling Reporting and Documentation duties

SKILLS:

Model Based development, Model Based Testing, C/Embedded C
C++,Unit Test, HIL Test,
CAN,SPI,12C

TOOLS:

Citrix workspace(Doors),Model Development(ASCET),TPT(Time Partition Testing),UDE,
Axe star, Blue Docs, Vs Code, Vector Can db++(Can dbc), ALM, ECU works
MSSCCI, INCA 7.3,SPI,12C,UART, CAN,Debugging, Automation.

MICRO CONTROLLERS:

8051, INFINEON.

EDUCATION:

SCSVMV University - Kanchipuram
Bachelor of Electronics and Communications GPA: 7.2
2016 - 2020

ACHIEVEMENT:

Pat on the back Team Player
Memeber in Outstanding team