PERSONAL INFO

Date of Birth: 03-04-1983

Address: Kanderpada, Dahisar(West) Mumbai-400068 (India)

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EDUCATION

B.E (Electronics &Telecommunication)
University of Mumbai-2006

PGDBMS (Marketing)
Symbiosis Center of Distance Learning-2011

IT SKILL (SOFTWARES)

- Embedded C/C++(STM32Cube IDE)
- C# Programming
- Core and Advanced Java
- PLC Programming
- Microsoft Project

LANGUAGES

- English
- Hindi
- Marathi
- German (A1and A2 Level)

MUKESH AMBWANI

Project Manager(Automotive Electronics &Embedded Software)

Profile Snapshot

- Resulted oriented professional with over 16.5 years of experience in Industrial Automation Engineering Embedded system,Automative Electronics Vehicle Integration and Validation.
- Adept at managing entire project life-cycle from Design, Engineering, Embedded software customizations, Testing, commissioning and performance tuning of Industrial Automation and Embedded Systems
- Excellent engineering background in Embedded C programming , Core Java, C# programming
- Strong analytics for formulating solutions with excellent written, oral and interpersonal communication skills
- Highly organized with effective time management and leadership skills to motivate others
- Major responsibilities handled as a Manager in Global Projects.

WORK EXPERIENCE:-

Qucev Technologies Pvt Ltd
Project Manager – Vehicle Integration and Battery Systems : -Feb 2024 onwards

Key Responsibilities:-

- ePT System architecture for hardware and Software Interface for 3.5T eLCV.
- Engineering, Sizing and Testing of ePowertrain Systems at Bench Level.
- Software features and Interlock testing of ePowertrain Systems.
- Reviewing Spec book and functional document of Software Interlock and features for ePowertrain Systems and discussing the same with the Supplier
- Leading team of Engineers for ePowertrain System Engineering and Validation which includes (Motor.Motor Control Unit,BMS and VCU Integration).
- Collaborate with CFT Team for integration and Validation of ePowertrain Systems and Vehicle validation.
- Evaluating Suppliers on technical competency for Battery Assembly Line.

BlueBinaries Engineering and Solutions Ltd
Sr.Manager – Component Engineering and Validation-May 2023 - Dec 2023

Key Responsibilities

- Engineering,Sizing and Selection of Battery and Traction Control systems
- Testing and Validation of e-Powertrain Systems ,Battery Charge and Discharge Log Testing.
- Software Feature and CAN Signal Testing of MCU,BMS ,OBC and VMU. using Vector CANoe Tool.
- Signal Analysis and Fault Injection testing using **CAPL Scripting.**

- Analyzing RCA reports and suggesting suitable solutions to overcome the same.
- Reviewing Test Cases of ePowertrain and Fault Injection and suggesting suitable modification as per functionality and architecture requirement.
- Designing the complete EE Architecture (HV,LV and ePowertrain system) ofElectric vehicle as per requirement .

Onsite Projects :-

Vinfast (Vietnam)

- ePowertrain Testing at LabCar and Vehicle Level .
- Understanding the EE Architecture and suggesting changes to improve theoverall functionality and efficiency of the system.
- Analyzing the Thermal Logs to check the functionality as per specifications.

Precision Camshafts Ltd (EMOSS-BV Netherland)
Project Manager(Vehicle Integration)-Mar 2022-April 2023

Key Responsibilities

- Engineering and Sizing of ePowertrain System for 1.5T eLCV.
- Software Features and Interlock testing of MCU ,BMS ,OBC,EHPS using PCAN tool.
- Leading team of Engineers for ePowertrain System Engineering and Validation which includes (Motor.Motor Control Unit,BMS and VCU Integration).
- Vehicle Integration and Performance testing of Vehicle which includes Range testing ,Acceleration testing ,Gradient testing and Load testing.
- Providing technical support for Homologation of the Vehicle at ARAI whichincludes various test such as Power test,EMI/EMC test .
- Co-ordination with Emoss-NL team for technical support on Sizing and issues during Vehicle integration and performance testing .

Sterling G-Take E-mobility Pvt Ltd
Project Manager –Application Engineering- Jan 2021- March 2022

Key Responsibilities

- Scheduling and assigning task to the team for Bench Level ,Dyno and Vehicle level testing and validation of **Motor Control Units** in Electric Vehicles
- Software Feature and CAN Signal Testing using PCAN Tool.
- Embedded Software Customization in **Embedded C** for Motor control unit development using **STM32 Cube IDE**
- Vehicle Integration and Performance testing (Range,Acceleration,Gradient and providing technical support to customers in case of integration issues on the Vehicle
- Technical discussion with Customer on RFQ and software specific functional requirements and suggesting a suitable product from the portfolio.
- Providing Technical support to Certification labs for conducting specific standard test on Motor Control Units
- Leading discussion with Technical partners in China for product development and customer specific requirements.
- Project scheduling to meet timelines and highlighting wherever support required from the management to mitage future risk in the project

Bosch Rexroth India Ltd and Bosch Rexroth AG (Germany)
Manager-Application Engineering- Oct 2012- Dec 2020

Key Responsibilities

- Engineering and Sizing using software tools like Indra Size and Sytronix size to determine appropriate Motor Drive and Pump combination as per the application requirement.
- Embedded Testing and Simulation (Hydraulic Test Bench /Powerpack) of Systronix,Servo Drives and VFD as per application requirement.
- Programming of PLC using FBD and and Ladder Logic and Motion Logic Controllers (MLC-H) for Synchronization of electrical Axis
- HMI (Human Machine Interface) Screen design as per the application and process requirement.
- Commissioning and performance tuning of Servo Drives, Variable Frequency Drives and Sytronix based Systems at client site (Application – Plastic/Presses/Printing Applications)
- Providing application and engineering support for Servo drives, Motion Logic Controls and Sytronix systems as per the process requirement to Bosch Rexroth country units and Clients in case of failure and breakdown of the Machine
- Installation and Commissioning of Condition Monitoring-IOT systems at site and and providing technical support in case of failure and breakdown of the system.

Siemens India Ltd
Executive-SCM - March-2012 to Oct 2012

Key Responsibilities

- Engaged with RFQ, Offer evaluation and negotiation with supplier considering factors such scope, schedule/target and price and developing new technically competent suppliers.
- Preparing a Competitive analysis sheet to track vendor price ,delivery and technical competency
- Engaged in in Cost benchmarking technical and commercial Bid / Proposal writing.

John Cockerill India Pvt Ltd (CMI-Belgium)
Asst.Manager –Embedded Systems – July2007-March 2012

Key Responsibilities

- Design and Engineering of various electrical systems like Automatic Gauge Control System, Thickness Gauge System, Elongation Control System & Web Guiding Systems used for Steel industry (Cold Rolling Division)
- Testing and Troubleshooting of various Electronic boards and Electrical panels and duly filling test reports for verification
- Software modifications and customizations using Embedded C for various 8 and 16 bit microcontrollers such as 80c196Nu, Fujistu, Intel i960 and testing the same to ensure optimum performance and functionality.
- Commissioning and performance tuning of various Electrical Systems at site and providing technical support in case of failure and breakdown of the system.