HARI PRASAD BHUPATHI
ENGINEERING LEADER

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EDUCATION

- Master of Engineering -Control Systems
- Bachelor of Technology - Electrical

CORE COMPETENCIES

●●●● Model Based Development-Matlab/Simulink

●●●● Full life cycle project management

●●●● Leadership & Team building

●●●○ Risk Assessments & Mitigation

●●●○ Rapid Prototyping

●●●○ Control Algorithm Development

●●●● Requirement Management - DOORS,DNG

●●●○ Programming Languages-M Scripting,Python

●●●● SW development life cycle

●●●● Verification & Validation

●●●○ New Product Development & Research

●●●○ Configuration Management-GIT,VSS,Clear Case,RTC

●●●○ Scrum Agile methodologies

●●●○ ISO26262, ASPICE, AUTOSAR,MAAB, MISRA C

●●●○ Cross Functional Team Coordination

●●●○ Testing tools - Vector, dSpace, ControlDesk, IPG Carmaker

●●●● Customer Relationship Management

●●●○ QA-Unit test,Integration test, System test & Performnce test

●●●● Intercultural Communication - UK,India,China, Europe, USA

AWARDS&CERTIFICATIONS

🔖 Six Sigma Green Belt Professional

🔖 General Electric Engineering excellence award 2013

🔖 Multiple Team Excellence Award at Carrier Corporation

🔖 Star Performer Award 2005-2006 at Satyam Computers Services Ltd.

PERSONAL PROFILE

22+ years of Professional experience which includes Model Based Design,Engineering Management, Project/Program Management, Lead Safety Critical Embedded Software Design & Development and Verification & Validation activities.

PROFILE SUMMARY

- Experienced in Software project management activities proposal preparation against RFQs, effort estimation, project planning, product design, risk analysis, reporting, status monitoring and quality.
- Strong program management and Agile product development/ transformation skills. Expertise in developing plans with Waterfall and Agile methodologies.
- Successfully assisted top management in planning strategies, incorporating, managing, and driving business change.
- Significant experience in AutoSAR and Non-AutoSAR, Model Based Development and Automotive & Engineering Control Systems.
- Proactive in organize and drive required steps to ensure that Release Train and Program Increment goals and milestones are met.
- Drive adoption and proper use of software development tools like JIRA,Rally across teams and suppliers.
- Expertise in mapping client requirements, design, development, integration, testing & deployment of complex systems.
- Excellence in managing large teams from requirements through design, implementation & deployment.
- Good experience with development and verification of embedded software using dSPACE hardware in the loop systems.
- Working knowledge with embedded controller networks and ECU diagnostic and network communication tools.
- Good Working experience with Global OEMS/Tier1customers: Carrier Global Corporation,Stellantis, Jaguar Land Rover,Ford,GE, TRW , Eaton and DAF.

WORK EXPERIENCE

Application Software Supervisor
Stellantis I USA | Sept2022 – Till Now

- Group Lead for Core Application SW Development:
  - Accountable for Model Based SW implementation,SW detailed design,MIL & SIL.
  - Ensures that all SW related WPs based on A-SPICE, are available on time and with the requested quality within SWX domain.
  - SAFe Framework and ASPICE SWE.3 and 4

Senior Engineer
Methodica Technologies I AAM Inc |I USA | Jan2022– Sept2022

- Understand Requirements, Organize, Plan and Coordinate and Control the various Model Based Development activities for Electrification Controls.
- Responsible for implementing control system designs in a model based and conduct in-vehicle test maneuvers, bench, and dyno tests for development activities and performance evaluation.
- Execute advanced development projects in accordance with ASPICE and ISO26262 compliant development processes.

Technology Manager
Carrier Technologies INDIA | Nov2018 – Jan2022

- Interfacing with the business partners & other stakeholders to get an alignment on project scope and deliverables
- Subject Matter Expert (SME) for an in-depth understanding of various distributed systems ,integration testing and its root cause analysis for findings.
- Setting up teams of assorted skills and processes for in-House Model Based Software development along with verification and Validation.
- Planning, hiring, personnel development, performance management, training, mentoring, team budget & operations, to develop team capability, enhance responsibility and grow business.

- Review, align, and track the progress of MBD team against different HVAC programs work plan/goals.
- Drive and lead a culture of continuous improvement and proactive ownership. Also drive productivity improvements and productivity gaps to resolution.

Technical Specialist / Vendor Manager
Automotive Robotics l Ford Motors l INDIA | July2017 – Nov2018

- Subject Matter Expert (SME) for an in-depth understanding of Climate Control systems ,integration testing and its root cause analysis for findings.
- Reviewing Requirements, Reporting and tracking requirement review defects, Maintaining Requirement Traceability Matrix.
- Design and develop the MBSD model for the Climate Control modules-blend door control, blower control, temperature control etc inside the cabin.
- Follow MISRA and MAAB guidelines for the developed software.
- Follow ISO 26262 quality standards for the designed models.
- Ensuring timely completion and delivery of project to the partners, extending production support of multiple applications; conducting weekly internal and external meetings on progress and deliver project status.

Solution Architect
KPIT Technologies l JLR l UK | Aug2013 – Feb2017

- Design, simulate and generate model based fixed/ Floating point software for driveline and Adaptive dynamics features
- Responsible for maintaining V & V quality for MIL, SIL and HIL testing of driveline and Adaptive dynamics features
- Customer coordination and offshore team central point of contact for all technical discussions, mentorship and trainings
- Deriving System to software requirements for implementation by software engineers.
- Review and analyze the system validation results and improve Adaptive damping and IDD algorithm.
- Leading team of engineers for Model based design, Control modelling, Simulation and Auto coding for Automotive applications.

Lead Engineer
General Electric l INDIA | Feb2008 – Aug2013

- Leading a team, responsible for the algorithm prototyping, design, development, verification and validation for control systems for wind turbine NPI programs.
- Responsible for legacy turbine control software maintenance, condition monitoring, statistical analysis, field validation, release management and customer issue resolution.
- Capturing the requirements and control strategy for locomotive blowers in DOORS.
- Conceptualized the system design, review and released the design document.
- Developing control strategies and implementing in MATLAB/Simulink using MBD techniques.
- Responsible for performing V&V of the EQV control software via HIL testing and at the Locomotive.

Senior Control Software Engineer
Eaton Corporation l INDIA | July2006 – Feb2008

- Responsible for model based development and testing of control software models for the transmission of Hybrid-Electric Trucks. Responsible for Software-In-Loop and Processor-In-Loop validation and analyzing the test results. Responsible for carrying out certification test criteria based on requirements provided by System Engineers and generated test report

Software Engineer
Satyam Computers l INDIA | May2004 – July2006

Project Trainee
Indian Space Research Organization l INDIA | June2003– May2004

Technical Supervisor
Deepak Galvanizing & Engineering l INDIA | Aug1996 – March1998