P.Vamsi

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SUMMARY OF SKILLS AND EXPERIENCE

- An Advanced Driving Assistance Systems (ADAS) program Manager & result-oriented team leader with Masters (Automotive Engine technology) in IIT-Madras & with extensive experience in Powertrain too.
- 18 years of managerial/leadership skills with cross functional teams in multiple Automotive R & D domains including Tier1 Suppliers and End customers (OEMs)
- System Design Architect/Technical Architect and ADAS function Owner for Various ADAS features

Expertise/Skill set

- ADAS & features of ADAS
- ADAS Homologation for components
- ADAS Sensors; LIDAR, USS, RADAR, Cameras
- Automotive embedded systems both in ADAS & Powertrain
- AUTOSAR
- CAN PROTOCOL
- ISO 26262
- JIRA
- MATLAB/Simulink
- ASPICE
- Application Life Management

Applications worked

Passenger cars Pick-up trucks, SUV,
Heavy Duty Diesel Engines
(Trucks, Marine, Genset, Construction)

Total Quality Management Practices & Tools

- DFMEA
- GANTT Charts
- Fault Tree Analysis
- Risk Assessment
- VAVE
- Design Verification plan (DVP)
- Agile Methodology

Leadership Skills

- Identifying the Key Result areas (KRA)
- Monitoring Key performance index (KPI) for team members
- Program/Project management
- Design change Management
- Handling team size of 32

Detailed ORGANIZATIONAL EXPOSURE

Magna Telemotive GMBH, Senior ADAS Specialist, Munich, Germany (November 2022 till present)

- Development of ADAS Features Functional Requirements
- Development of System Architecture Design for ADAS features
- Features Worked on
  a. Sentry Mode
  b. Obstacle aware acceleration
  c. Tailer Tow assistant
  d. Surrounding View Camera
  e. Camera Based Mirror Replacement
  f. Lane Change Decision Aid System

Ford India Pvt Ltd (June 2021 till July 2022), ADAS Program Manager, Chennai, India

Entire ADAS Program Management using JIRA/ AGILE methodology & presenting the status of the ADAS Program to the top management on weekly basis.

- ADAS features homologation follow up
- ADAS hardware engineering and calibration follow up
- Ensuring all the tests are running as per Design verification plan (DVP) schedule
- ADAS S/W development Using JIRA,
- Consolidating engineering changes in Various ADAS features before introducing them into the Vehicle
- Features Worked on:
  ACC, LDW, AEB, BLISS, RCTA, FCTA, 360 Deg surrounding view, Vehicle exit alert

Automotive Robotics India, Deputy Manager, Product development & Engineering
Sep2019 till June 2020

- ⇨ Conversion of wet oil sump engine to dry oil sump engine/Powertrain
- ⇨ Installation of hydrogen injection retrofit to reduce emissions and BSFC
- ⇨ Commissioning of Transmission dynamometer
- ⇨ DFMEA project on marine application diesel engines/Powertrains

SM Marians (Exclusively Marine application "Diesel engines"), Kanyakumari, Tamil Nadu.
Manager, Engine R & D, Team size 32
Jan 2018 to July 2019

- ⇨ Managing the entire operations from engine component quality to engine dispatch to end customer
- ⇨ Uprating 427 hp engines to 500 hp engine by **turbo optimsation** as per customer demand.
- ⇨ Uprating the 240hp engine to 350 Hp engine **using turbo and intercooler optimization**
- ⇨ Engine Component Drawings development through reverse engineering and necessary GD &T
- ⇨ Engine Rating certifications in ARAI as per company requirement
- ⇨ Reducing BSFC of the 180 hp engine by 10 % at both rated power and torque points.
- ⇨ Optimizing the wet exhaust manifold design to reduce engine water temperature

Hero MotoCorp, Centre of Innovation and Technology, Jaipur Sr.Manager,
Mechanical function and Testing, Dec 2015 to Oct 2017(1 year 11 months)

- ⇨ Gasoline Engine's wide open throttle testing for proto type Cylinder head & port flow comparison
- ⇨ Gasoline Engine testing for mechanical efficiency calculations (Total engine & Component Break up)
- ⇨ Finalizing the testing standards and specifications
- ⇨ Designing for new evaporation system (EVAP) for emission control to meet the Euro 6 norms

Mitsubishi Heavy Industries-VST Diesel Engines Pvt Ltd, Mysore.
Manager, Design Centre (Team Strength-9)
March 2012 till Nov 2015 (3 years, 9 months)

- ⇨ Engine Development for meeting the Latest Emission norms (BS-III, CEV) & CPCB-II(Genset) emission TREM IIIA norms(tractor), homologation & type approval from ARAI.
- ⇨ Technical Support for Powertrain Indigenization/Localization
  - o Coordinate Endurance tests –PreTest and After Test Inspections
  - o Coordinate with Suppliers to meet the MHI Specs
- ⇨ CFT with Suppliers, materials and vendors
- ⇨ E-Bill of materials (BOM) finalizing and Issue to PPC.
- ⇨ Involving in meetings with IDEMA (Indian Diesel Engine Manufacturers association) regarding CEV emission norms policies
- ⇨ Regularly interacting with MHI, Japan R&D and act as technical bridge between MHI R&D and internal departments.

Caterpillar India Pvt. Ltd, Chennai through affiliate GGS tech pubs
Senior Engine Analyst, Engine Performance and Analysis.
Sep-2009 till March 2012(2Years, 6 months)

- ⇨ Tier IV (Interim and Final) emissions development (Heavy duty Diesel engines with CRDI technology) with US team support (worked on earth moving applications) and vehicle integrations.
- ⇨ Engine rating development optimization (Based on Design of Experiments)
- ⇨ 9.3 ltr engine SCR optimization & SCR dosing strategy
- ⇨ Emission optimization with EGR technology (Tier 4i)/ with SCR technology (Tier 4f)
- ⇨ Emission calibration for transient cycles including the Lean NOX trap (LNT) design & routing for meeting the NOX norms using Automotive embedded systems .
- ⇨ Authoring test Instructions as per the test plan.

Additional Responsibilities

- ⇨ Virtual test cell installation for the upcoming tests (Pro-E based)

Ashok Leyland, Chennai. Deputy Manager, Product Development
Tenure: Aug-08 till Aug-09

- ⇨ Value Engineering project for LCV engine
- ⇨ BOM analysis
- ⇨ Vendor development support
- ⇨ Test bed Installation (Along with AVL), Test cell layout, Instrumentation and Interface tools layout, Intake, Exhaust Layout, Dyno selection and commissioning

Cummins India Ltd, Pune.
Manager, Performance development
Tenure: Sep-06 –Aug-08

- ⇨ Downsizing 8.3ltr engine to 5.9ltr engine to meet 160kVA, CPCB I compliant norms by Turbocharger modification. (Turbo matching)
- ⇨ 8.3ltr to meet 380 hp @ 2500 rpm for military application. Calibration development (Using Cummins Specific S/W)
- ⇨ 5.9ltr to meet 180 hp @ 2500 rpm BSIII
- ⇨ 8.9ltr to 375 hp @ 2500 rpm BSIII
- ⇨ Value proposition project (Bench marking)

Rane Engine Valves Ltd, Chennai, India.
Senior Engineer, Engine Testing
Tenure**: Jun 2004 till Mar-2006**

- ⇨ Responsible for conducting Value engineering tests and developing accelerated tests in the R & D department on a continuous basis.
- ⇨ Installation of new test bed with a SAJ eddy current dynamometer, AG 20 dynamometer
- ⇨ Value engineering project for performance comparison of two types of valves in a two-wheeler engine.
- ⇨ Construction of a test rig (special purpose machine) for Valve tip erosion measurement
- ⇨ Transient thermal & stress analysis of engine exhaust valves

ACADEMIC PROJECTS

- ⇨ Project Title: Thermal Analysis of Engine Valves/ Finite Element Analysis

EDUCATION PROFILE

Qualification	Year	Institution	Percentage/CGPA
M.Tech (Automotive Engine Technology)	2002-2004	Indian Institute of Technology, Madras	6.86
B.Tech(Mechanical)	1996-2000	KSRM college of engineering, Sri Venkateswara University	60.1
Intermediate	1995	Government junior college, Kurnool, AP	**82**
Secondary school certificate	1993	Kurnool public school, Kurnool, AP	**82**

Personal Achievements

- ⇨ Languages known: English, Hindi, Telugu (Speaking, reading and writing fluently), Tamil (can speak), German (Basic)
- ⇨ Author of “Bible, Bhagavad-Gita & Billionaires” (Available in Amazon, Flipkart)
- ⇨ 15 courses (Automotive Engine Technology) in **UDEMY live.**