



SANJAY PATEL

TECHNICAL PROJECT MANAGER

Result-oriented professional, targeting opportunities as **ADAS/Electric Vehicle Development** in an organization of high repute to implement the acquired experiences and skills to keep growing

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PROFILE SUMMARY

- ❖ **Highly skilled in full product lifecycle activities for ADAS and EV projects** including concept maturation, design management, engineering change management, issues control & resolution, cost management, vendor management, manufacturing, and various other cross-functional activities
- ❖ **Regularly reviewed part/product development activities** and guided & supported the team in achieving the desired outcome
- ❖ **Excellent at managing complete engineering operations** involving requirement analysis, finalization of specifications, designing, prototype development, testing & development in compliance with global quality standards and clients' requirements
- ❖ **Evaluated potential & practicality of products in development and relied on experience & judgment** to plan & accomplish goals
- ❖ **Expertise in collaborating with suppliers for the day-to-day development issues**, establishing long-term partnerships with them, facilitating their evaluation & rating, and developing supplier assessment systems
- ❖ **Strong exposure in assuring that all newly developed products have represented maximum quality & reliability** attainable by establishing effective quality control inspections, tests & corrective procedures
- ❖ Effecting preventive maintenance schedules of various kinds of equipment to increase the equipment uptime/reliability & accomplishing project targets
- ❖ Expertise in handling project execution, implementing plans & schedules for maintenance and annual turnaround with focus on optimum utilization of workforce and materials
- ❖ **SAE Paper #:2015-26-0053: "Modeling a Roof-Mounted Solar Panel Automobile - Benefits and Path Forward"**
- ❖ **Paper presentation at CMC-congress conference on "A Cost Effective and Time Efficient Validation of Mild"**
- ❖ **Visited china for supplier assessment and Electrical Vehicle components development as well as Germany for 1-month training for E3 tool & database creation**
- ❖ **Paper presentation Virtual calibration and validation** of mild hybrid control strategy using data front loading approach
- ❖ **3 patents filed with 30+ IPR**

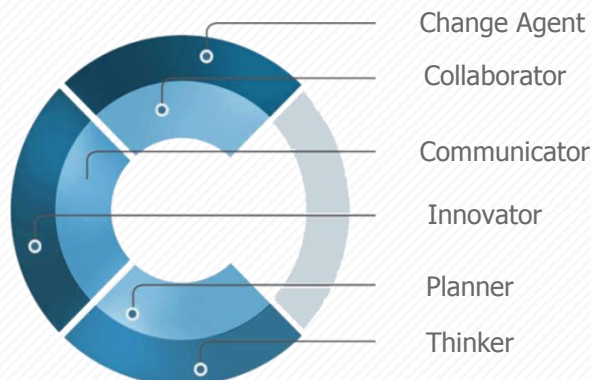


CORE COMPETENCIES

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|--------------------------------|-----------------------------------|--------------------------------|
| ➤ ADAS System Integration | ➤ Product Development | ➤ Electric Vehicle Development |
| ➤ Process Enhancements | ➤ Strategic Planning & Leadership | ➤ Quality & Cost Management |
| ➤ Project & Program Management | ➤ Operations & Maintenance | ➤ Team Building & Leadership |



SOFT SKILLS



EDUCATION



M. Tech. (Embedded System) from Birla Institute of Technology & Science (BITS), in 2020



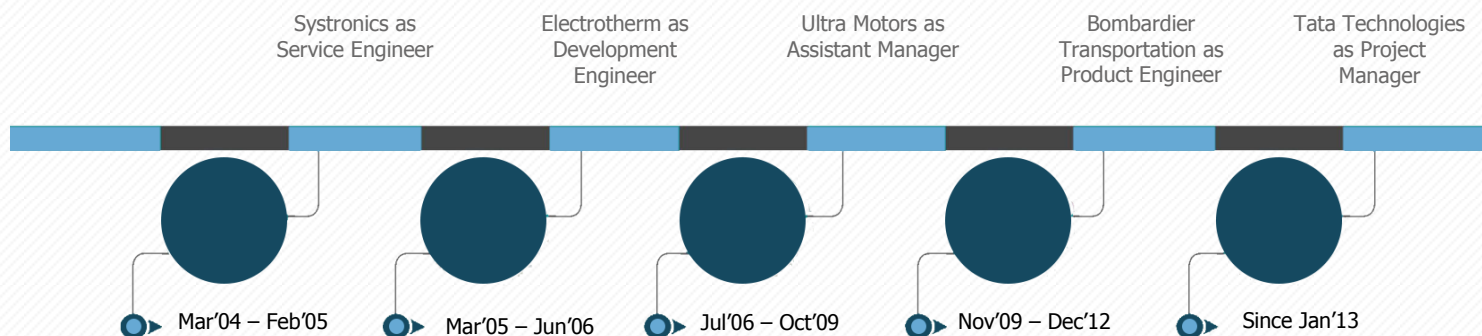
B. Tech. (Electronics & Telecommunication) from U.V. Patel College of Engineering in 2003

Technical Skills

- ❖ UML Diagram
- ❖ Function Partition
- ❖ Vector Tools
- ❖ V-Spy
- ❖ SIMULINK
- ❖ E3



CAREER TIMELINE



WORK EXPERIENCE

Since Jan'13 with Tata Technologies Ltd., Pune as Project Manager: E & E Department at Tata Motor ERC (Engineering Research Center)

Key Result Areas:

- ❖ Managing Projects of ADAS systems Development & Integration on various Vehicles like 360 degree surrounding view system (SVS), Auto Parking (APA), Driver Monitoring System (DMS), FCW, AEB, ACC, TSR, HBA, SAE ADAS Level 2+ features
- ❖ Developing a technological roadmap and a product development plan for next-generation technology systems
- ❖ Performing Technology comparison and selection of the suitable technology for the application
- ❖ Delivered a better performing SVS system with 30% reduced system cost compared to competitors
- ❖ Administering VAVE idea creation & implementation to reduce vehicle costs to meet a target of saving 10 CR
- ❖ Developing digital simulation to generate ~1 CR saving for each vehicle platform development
- ❖ Monitoring Project management, Requirement creation, Supplier evaluation, Design validation plan, Use-cases, Test cases, Benchmarking, DFMEA
- ❖ Implementing HIL set up for ADAS features validation as well as EOL setup for ADAS components
- ❖ Overseeing Recruitment and team building for Tata motors projects
- ❖ Development of the Hybrid and Electric vehicle components like battery system, motor, controller, and converter
- ❖ Analyzing Hardware in loop set up the implementation to validate Hybrid & EV vehicle algorithm

Nov'09 – Dec'12 with Bombardier Transportation India Ltd., Vadodara as Product Engineer (25KV EV)

Jul'06 – Oct'09 with Ultra Motors India Pvt. Ltd., New Delhi as Assistant Manager (2W Electrical Vehicle)

Mar'05 – Jun'06 with Electrotherm (India) Ltd., Ahmedabad as Development Engineer (Electric Vehicle component)

Mar'04 – Feb'-5 with Systronics Pvt. Ltd., Ahmedabad as Service Engineer

Certifications

- ❖ ADAS Training by AVL, 2022
- ❖ ADAS Training by TUV, 2019
- ❖ ISO 26262 Training by TUV, 2018
- ❖ Appreciation for New Technology Development certified by Tata Technologies, 2016
- ❖ Veristand training certified by National Instruments, 2015
- ❖ Failure Mode Effective Analysis and Control Plan certified by TUV SUD South Asia Pvt. Ltd, 2012
- ❖ Appreciation for an exceptional contribution towards the delivery of 500th car by Bombardier India, 2011
- ❖ E3 Training certified by Zuken, 2010
- ❖ Appreciation for Electric Vehicle certified by Ultra Motor India, 2009

Project Undertaken

- ❖ **Title: ADAS**
- ❖ Organization: Tata Motor, Pune
- ❖ **Title: Hybrid / Electric Vehicle**
- ❖ Organization: Tata Motor, Pune



PERSONAL DETAILS

Date of Birth: 27th January 1982

Languages Known: English, Hindi & Gujarati

Address: Pune, Maharashtra, India, 411061