



Akshay Ashok

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Summary

Results-oriented and impact-driven professional with 5.5 years of experience in automotive and manufacturing sectors. Experience with leading new product development, effective cross functional coordination, and ensuring compliance. Proven ability to combine product thinking and analytical rigor to solve problems and deliver value to business and customers.

Professional Experience

Senior Associate Manager | Maruti Suzuki India Limited | Gurgaon, Haryana

- **Led the design, development and vehicle integration** of a compact CNG pressure regulator used across multiple platforms and models delivering **₹650+ million** in annual cost savings in FY25-26 through cross-functional collaboration with Supply Chain, Quality, Assembly team and Suppliers.
- **Led the design and development** of CNG system for **Maruti Suzuki's first** Bharat NCAP/ Global NCAP **5-star** CNG vehicles, the Dzire and Victoris. System design ensured compliance with offset deformable barrier, full frontal and rear crash regulations.
- **Engineered India's first underbody CNG system** for the Maruti Suzuki Victoris, significantly increasing usable boot space, thereby enhancing customer satisfaction.
- **Designed end to end simulation models** for the dynamic motion of flexible hoses (considering string vibration, sagging and tolerance stack up) to control risks and minimise work redundancy. **Reduced overall manhours by 15%.**
- **Collaborated with cross-functional teams** to reduce CNG system design and development turnaround time by **33%**, enabling direct delivery and use of Off-Tool Off-Process parts and eliminating prototype stages.
- **Initiated and led** localisation projects creating **commercial impact of approximately ₹214 million** in FY-24-25 at MSIL through value engineering in collaboration with supply chain and quality.
- **Redesigned tooling and gauges** for CNG high-pressure joint assembly, reducing **assembly man-hours by 10%**, improving production efficiency, and eliminating process bottlenecks.
- Built organizational capability by designing and implementing training modules on CNG systems to **upwards of 100 trainees** across various divisions of the company, enabling seamless transfer of knowledge across divisions.
- **Effectively managed** end-to-end execution of multiple ECR and ECN activity by leading technical discussions and feasibility study with suppliers and validation teams meeting model timelines for continuous improvement and part cost reductions.

Assistant Manager | Maruti Suzuki India Limited | Gurgaon, Haryana

- **Owned the design, vehicle integration (layout design)** and part development of safety critical CNG system components for **7+ high volume models**, contributing to **\$4+ million** in business impact. Singlehandedly met Concept DR, DMDR, Drawing release timelines for these models.
- Identified gap in testing requirements of Maru A parts and introduced Maru AR instructions in technical specification drawings for the **first time in Maruti Suzuki** Engine division improving the safety and reliability of critical components.
- **Resolved** critical fuel leakage issue observed in production line in a fuel filter joint through structured analytical method, that enabled reuse of existing parts, avoiding costly injection moulding die development and thereby **reducing analysis cost by 80%**; Led feasibility study of corrective design measures and **implemented** them across multiple models.
- Managed and Implemented **20+ high-priority CARV requirements**, including material changes and machine/line duplication, ensuring on-time implementation with **0 production downtime** through data-driven analysis and collaborative part validation.
- Developed a comprehensive SOP repository for engineers in Engine auxiliaries' division for faster, error free and quick KT.

Associate Engineer | L&T Technology Services | Vadodara, Gujarat

- **Planning, execution and delivery of digital twin** via SmartPlant suite for multiple global sites of Covestro by combining plant and engineering data, standardizing symbols and workflows in accordance with ISO and plant-specific standards.
- Led cross functional collaboration for Covestro's CAOJING plant and ANTWERP plant, serving as the **primary LTTS engineering interface** and coordinating technical discussions with global client team, site team and LTTS internal stakeholders.
- **Automated graphical quality check** report using macros in MS Excel, **cutting QC cycle time by 30%** and reducing errors.
- Completed data migration of all CAOJING plant data from more than **300 unorganized 2D drawings** to an integrated platform using Hexagon Smart Plant P&ID and Smart Plant 3D. The migration was completed successfully with **95% error free data** leading to before time delivery, customer satisfaction and approval.

Graduate Engineer | Thermosen Technologies Private Limited | Bangalore, Karnataka

- **Improved soldering efficiency and reduced rejection rates** by designing a conveyor-based semi-automated soldering line for thermistor production using CAD tools reducing part **production time by 15%.**
- **Delivered 10% savings in manhours** by streamlining material movement between pressing, sintering, and testing operations.
- Developed interactive dashboards using data analytics to track ongoing and completed new projects. Designed visuals to identify metrics and mitigate risks.

Education

Bachelor of Technology in Mechanical Engineering – PES University | Bangalore, Karnataka, India

Accomplishments and Awards

- Received **Employee of the Quarter award** twice in Maruti Suzuki for introduction of Maru AR instructions in drawing **for the first time** in MSIL and design and development of a new compact CNG Pressure Regulator.
- Received **Spot Award** at L&T Technology Services for innovation in graphical QC methodology using macros in MS Excel.
- **Fast track promotion** from Assistant Manager to Senior Associate Manager at Maruti Suzuki India Limited within 2 years due to continued impact creation.
- **Ranked AIR 3** in overall combustion event at the national level competition, ENDURO STUDENT INDIA in 2020.
- Received **distinction award** in 3 semesters of mechanical engineering for being among the top 10 percent of the class.

License & Certifications

Minors degree in Computer Science Engineering, PES University

Ready Engineer Certification, Tata Technologies

Sustainable Energy – Drivers and Changes, University of Edinburgh through PES University

Co/Extra-curricular

- Represented PES University at national level events like BAJA SAEINDIA and ENDURO STUDENT INDIA.
- Team lead of Suspension and Steering domain of the automotive club at PES University – Team Haya Off-Road.
- Core Team member of finance and budget management of the automotive club at PES University – Team Haya Off-Road.
- Coordinated department-wide safety initiatives at Maruti Suzuki India Limited, including workplace 5S implementation and testing vehicle safety management, ensuring compliance with safety standards and operational excellence.