



Vamsi Srinivas Ailavarapu

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Summary

Program Management Professional from NIT Warangal, specializing in automation, lean manufacturing, and process optimization. Spearheaded strategic projects in component standardization and quality system enhancements, achieving significant cost savings and operational flexibility. Proficient in Excel, Python, and data visualization tools, driving data-driven decision-making and process excellence.

Professional Experience

Deputy Manager | Assistant Manager | Maruti Suzuki India Limited | Gurgaon

Cost Savings

- Developed an in-house prototype for real-time engine monitoring, **saving INR 50 lakhs** by collaborating with production teams, enhancing operational efficiency.
- Standardized assembly line components, **saving INR 40 lakhs** via supplier negotiations thereby improving product consistency.

Innovation

- Optimized engine and transmission processes using lean principles, **cutting cycle times by 10 seconds. Increased capacity by 12%**, streamlining production workflows.
- Automated four assembly lines, **improving tact time by 4 seconds** with robotics teams. **Boosted daily production capacity by 5%**, advancing factory automation.
- Built an Excel tool to auto-correct CNC errors for five machines, reducing **breakdowns by 8%. Increased uptime by 10%**, supporting maintenance teams with scalable solutions.
- Collaborated with Procurement to replace bottleneck components, **shortening lead times by 2 months**. Enhanced supply chain efficiency for project teams, meeting tight deadlines.
- Developed 8 standardized Excel-based tools to optimize project lead times, improving operational efficiency and enabling seamless knowledge transfer for engineering teams.

Quality Enhancements

- Built a needle bearing inspection machine, **reducing defect rates by 20%. Saved INR 50 lakhs** for quality teams, improving production reliability.
- Designed a 0.02mm precision manipulator for transmission assembly, **cutting errors by 30%. Saved INR 40 lakhs** across three models, ensuring quality for assembly teams.
- Improved paint shop quality by **reducing rejection rate by 5%**. Saved **INR 10 lakhs in rework costs**, enhancing output for production teams.

Sustainability

- Replaced compressed air systems with electric actuators, **cutting energy by 12%. Reduced carbon footprint by 8% and costs by 10%** for facility management.
- Implemented a biogas-to-bio-CNG system for the canteen thereby **reducing operating expenses by 5%**, supporting plant sustainability goals.

Team Development/Process Improvement

- Mentored 3 junior trainees** with a structured program, delivering Advanced Excel and GD&T training to bridge skill gaps and boost automotive project efficiency.
- Authored 10 KAIZEN/PDCA documents, **reducing process variability by 10%**. Enabled 5 new initiatives, standardizing processes for project teams.

Education

B-Tech (Mechanical) – National Institute of Technology Warangal | India

Accomplishments

- Promoted to Deputy Manager in FY 22-23 and mentored 3 members with an emphasis on adaptability and commitment to continuous improvement.
- Awarded Best Performer for FY 21-22 for the successful delivery of 3 projects focused on improving tact time and reducing energy consumption and carbon footprint.
- Gained admission to NIT Warangal by securing an All-India Rank of 3590 among 12 Lakh candidates in JEE Mains 2015.

Certifications

Business Writing, University of Colorado Boulder

Excel Skills for Business: Advanced, Macquarie University

Crash Course on Python by Google, Coursera

Design of Electric Vehicle Batteries, Alison Education Company

Extra-Curriculars

- Active Member of Gurgaon Toastmasters club with an aim to improve my public speaking and leadership skills.
- Actively volunteered with the Youth Red Cross Club at college, successfully organizing various activities such as blood donation camps and essay writing events in my role as General Secretary.
- Served as technical lead for the Society of Automotive Engineers (SAE) team, representing our college in the MEGA All-terrain Vehicle (ATV) Championship.