Sneha Shanmugam

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CARRIER OBJECTIVE

A results-driven Mechanical Engineering graduate with 1.5 years of hands-on experience in quality assurance at Delphi TVS. Proficient in quality audits, root cause analysis, and process documentation. Passionate about manufacturing excellence and continuous improvement methodologies like 5S. Eager to contribute technical skills and a proactive mindset to a progressive engineering team.

WORK EXPERIENCE

QUALITY ASSURANCE TRAINEE   1.5 years
DELPHI TVS TECHNOLOGIES, ORAGADAM, CHENNAI

1. APQP & PPAP Handling: Executed end-to-end product quality planning and customer PPAP submissions per IATF 16949.
2. FMEA & Control Plan: Led PFMEA sessions and developed robust control plans to prevent failure modes.
3. 8D & Root Cause Analysis: Resolved line and customer issues using 8D, 5-Why, Fishbone.
4. SPC & MSA: Applied statistical tools (Cp, Cpk, X-bar R chart) and conducted Gauge R&R for measurement reliability.
5. In-process & Final QC: Implemented quality checks across machining, assembly, and testing lines.
6. Supplier Quality: Audited and approved vendors, managed incoming inspection and SCAR closures.
7. QMS Compliance: Maintained ISO 9001 & IATF 16949 documentation; supported internal/external audits.
8. Precision Tools Handling: Proficient in CMM, Air Gauge, Surface Tester, Profile Projector, Micrometer.
9. Lean & Kaizen: Drove defect reduction and process improvement via 5S, Poka-Yoke, and Kaizen initiatives.

EDUCATION

B.E. IN MECHANICAL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING - SRIRANGAM (AFFIICATED BY ANNA UNIVERSITY CHENNAI)
SINCE 2019-2023. 8.5 CGPA

HIGHER SECONDARY EDUCATION
TAGORE MATRIC HR. SEC. SCHOOL, DEVIYAKURICHI, ATHUR (DT)
COMPLETED IN 2019. PERCENTAGE: 74%

SECONDARY EDUCATION
DR. AKP OXBRIDGE MATRIC HR. SEC. SCHOOL, SIRUPAKKAM, CUDDALORE (DT)
COMPLETED IN 2017. PERCENTAGE: 97.6%

PROJECTS

PERFORMANCE ANALYSIS OF COMPRESSED AIR SYSTEM
FINAL YEAR PROJECT, CPCL, MANALI, CHENNAI

Design and Fabrication of Four Wheel Chain Drive using Pneumatic Power

SKILLS

TECHNICAL SKILLS:

- **Quality Tools:** 8D, 5-Why, Fishbone Diagram (Ishikawa), Pareto Analysis
- **Standards & Systems:** ISO 9001, IATF 16949, VDA 6.3, TS 16949
- **Measurement Systems:** MSA, Gauge R&R, Calibration Management
- **Statistical Tools:** SPC, Cp, Cpk, Pp, Ppk, Histogram, Control Charts
- **Drawing Interpretation:** GD&T (ASME Y14.5), Tolerance Stack-Up
- **Software Proficiency:** Minitab, Q-DAS, SAP-QM, MS Office, AutoCAD (basic)
- **Product Quality Planning:** APQP, PPAP, FMEA, Control Plan
- **Inspection Tools:** CMM, Profile Projector, Vernier, Micro meter, Air Gauge
- **Assembly & Process Audits:** Layered Process Audits (LPA), Poka-Yoke Design, In-process Quality

CORE SKILLS:

- Root Cause Analysis & Problem Solving
- Continuous Improvement / Kaizen / Lean Manufacturing
- Cross-functional Team Coordination
- Supplier Quality Management
- Customer Complaint Handling & Field Failure Analysis
- Visual Management & 5S
- Effective Communication (Internal & with OEMS

CERTIFICATION

INTERNSHIP
ITC ICML VIRALIMALAI, PUDUKKOTTAI(DT). SINCE 2022

- Gaining hands-on experience in manufacturing Utility Block. Updated standard operating procedures and implemented periodic cleaning protocols.

RAPID PROTOTYPE MANUFACTURING TECHNIQUES
GCE SRIRANGAM. SINCE 2022

- As a Hands-on Training Committee member at GCE Srirangam, Trichy, conducted a two-day workshop on Rapid Prototype Manufacturing Techniques. Provided training in 3D printing tools, SolidWorks topology optimization, and 3D slicer techniques, enhancing participants' proficiency in rapid prototype manufacturing

3D PRINTING
RAMAKRISHNAN COLLEGE OF TECHNOLOGY, TRICHY

- Attended a workshop on 3D Printing Techniques and Applications, where I learned about various 3D printing methods such as FDM, SLA, and SLS, and gained hands-on experience in 3D modeling and operating 3D printers.

DECLARATION

I, Sneha Shanmugam, do hereby confirm that all the above-furnished information is true to the best of my knowledge and belief.