



SEKARAN M

B.E Mechanical Engineering

CONTACT

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ADDRESS

1/345, Kamaraj Nagar, Natham,
Dindigul (DT).

TECHNICAL KNOWLEDGE

- TYPE WRITING (ENGLISH)
- MS OFFICE

DESIGN KNOWLEDGE

- Auto CAD
- SOLID WORKS

QUALITY SKILLS

- 5S
- 7 QC Tools
- GD & T
- PPAP Documents
- Drawing Study

LANGUAGE

- English
- Tamil

Professional Experience

AI Engineering Products, Chennai

January 2023 - July 2025

Job Role: Quality Engineer

Projects Type: Manufacturing & Production

Period: 2.5 Years

Responsibilities:

- Conducted in-process and final inspection of mechanical components and assemblies to ensure compliance with engineering drawings, specifications, and quality standards.
- Developed and implemented quality control procedures to reduce defects and improve product reliability.
- Performed root cause analysis (RCA) and corrective/preventive actions (CAPA) for non-conformities and customer complaints.
- Prepared and maintained quality documentation, including inspection reports, control plans, and deviation reports.
- Coordinated with production, design, and supply chain teams to resolve quality issues and implement continuous improvement measures.
- Used precision measuring instruments (e.g., Vernier calipers, micrometers, height gauges, bore gauges) to verify critical dimensions.
- Ensured calibration and maintenance of measuring instruments and quality inspection equipment.
- Participated in internal audits and supported external audits (ISO 9001, customer audits) to ensure quality compliance.
- Monitored process quality parameters and conducted process capability studies (Cp, Cpk).
- Assisted in developing standard operating procedures (SOPs), inspection standards, and quality checklists.
- Supported new product development (NPD) by conducting initial quality checks, first article inspections (FAI), and PPAP documentation.
- Tracked and reported quality KPIs such as rejection rates, rework trends, and customer return data.
- Trained operators and inspectors on quality standards and best practices to enhance shop floor quality awareness.

TAFE Tractors And Forms Equipment's, Madurai

JobRole: Internship

Department: Quality

Period: 6 Months

Responsibilities:

- Gained hands-on experience in assembly line operations and mechanical components of tractors and agricultural machinery.
- Observed and supported quality inspection processes including dimensional checks, visual inspections, and functional testing.
- Assisted senior engineers in monitoring production processes and identifying areas for process improvement.
- Familiarized with standard operating procedures (SOPs), work instructions, and manufacturing flow.
- Participated in preventive maintenance routines and understood equipment reliability practices.
- Learned about lean manufacturing practices, 5S implementation, and basic root cause analysis methods.
- Documented observations and prepared daily progress reports for review by the engineering team.
- Worked closely with cross-functional teams including production, quality, and maintenance to gain end-to-end process exposure.

AREAS OF WORK TO INTEREST

- DESIGN
- QUALITY CONTROL
- DOCUMENTATION

EDUCATION QUALIFICATION			
DEGREE	DURATION	YEAR OF PASSING	NAME OF UNIVERSITY/INSTITUTION
SECONDARY SCHOOL	2015 - 2016	2016	RC Little Flower Hr.Sec School, Natham.
HIGHER SECONDARY SCHOOL	2016 - 2018	2018	RC Little Flower Hr.Sec School, Natham.
B.E MECHANICAL ENGINEERING	2018 - 2022	2022	SBM College of Engg. & Technology - Dindigul