

K. Sathya Raj

B. Tech MECHANICAL ENGINEERING

Quality Assurance and Testing with 5 years of experience in Automobile and Electrical Industry, Quality assurance and Quality testing of the products of various industries. Proven ability to identify and resolve product and process defects, and improve operational efficiency.



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APPLICATION SOFTWARE KNOWLEDGE

- AutoCAD, UG- Nx (in learning)

PROFILE SUMMARY

- Focusing on new product - Quality process development
- A Mechanical professional with significant contribution in Quality Engineering.
- Hands on experience in Quality verification of Casting, Sheet metal, plastic, rubber, Welding, Nickel plating, Powder coat products
- Electrical Product testing as per ISO, IEC and EN standards.
- Quality documentation including PPAP, ISIR, Control Plan, Balloon drawing Creation readiness.
- Knowledge in Core tools APQP, PPAP, RCA, PSW sign off and FMEA.
- Geometric Dimensioning and Tolerance.
- CAD software (2D & 3D- basics)
- Test plan Creation as per NPD products and customer requirements. Test reports making as CTS format.
- Software Skill: MS word, MS-Excel, MS PowerPoint, SAP and Adobe PDF editor.

PROFESSIONAL EXPERIENCE

HARTING MANUFACTURING PRIVATE LIMITED, CHENNAI- (Aug 2023-Present)

Role: Quality Engineer and Testing engineer.

Job Responsibilities:

- Development support of electrical connectors for Industrial, Railways, and Robotics applications, ensuring **Quality Control and Type test validation**.
- Implemented and managed Quality procedures, Resulting in a **35%** reduction in defects.
- Hands on experience in Testing for the requirements Such as Type testing **Voltage proof test, IP rating test, Electrical and Thermal endurance tests, Vibration testing** etc. as per the **IEC 61984, IEC 60529 and EN 50467 standards**.
- Experience in preparation of test plans and conducting test for **Concept Validation, Design validation and Product validation**.

- Finalize proving proto stage in QC documents preparation (**2D** drawing verification, Supplier and internal report, Full layout inspection report).
- Collaborated with cross-functional teams, including design engineers, manufacturing engineers, and project managers, to ensure seamless integration of electrical connectors into larger systems.
- Supported prototyping assembly and testing efforts, coordinating with internal and external suppliers to validate designs and address any performance issues.
- Preparation of quality document such as **AOI, ISIR, Control plan, T0, T1 and T final internal inspection reports.**
- Handling of VMM, 2D height Gauge, Low pressure Vernier calipers, Blade micrometers, Slip gauges, portable CMM basics etc. for quality inspection of parts and maintain the QC instruments.
- Expertise in **defect identification of Zinc Die cast, Powder coated parts, Nickel plated parts, Plastic parts, Sheet metal and Rubber parts** used in Electrical connectors.
- Expertise in **qualification and testing (Salt spray test, IP protection, Boil test and Crosscut) of Powder coated parts/process, Nickel plated parts/process.**
- **Experts in Electrical testing Voltage proof and Contact resistance as IEC standard. Knowledge on Impulse withstand voltage, CE testing,**

Projects Worked:

- **Circular connector, Rectangular connector, UIC series Railways connectors, Breakway type** connector for using Robotics and Railways.

WHEELS INDIA PVT LTD - TVS – (Jun 2022 - Jul 2023)

Role: QA- Auditor

Job Responsibilities:

- Conducting Process, Product, Mix up Paint and Doc Audit and if any Non conformity, get consent with respective Audit and record it the NC format
- Obtain corrective action in the NC format for observed Non – conformity through 8D reports
- Validate the corrective action against the specification and to verify the effectiveness corrective action for every month
- Preparing the Monthly Review Meeting slides (MRM)
- Preparing Layout inspection and PPAP Documents for Proto types wheels as per customer and also joint inspection with customers

Projects Worked:

- Caterpillar EM wheels, Schwing stetter and JCB and Tractors wheels (**Heavy vehicle wheels, On road & Off road Etc.)**

ROYAL ENFIELD – (Jun 2020- Apr 2022)

Role: Quality Inspector

Job Responsibilities:

- Experienced on Frame welding Line Inspection and Patrol report for shift vise.
- Layout Inspection as per Customer Drawing.
- New project trail taken with **ISIR / PPAP verification** & Revalidation.

- Coordinate with **Customer Audits & Developments Activities** for New Projects.
- Preparation of **PPM and QIR** & updating on continuous basis.
- Handled **Paint shop Final Inspection quality**.
- Hands on experience in **DFT, cross cut examinations** for the qualification of Painted parts.
- Hands on experience in **root cause analysis** documentation preparation.

Projects Worked:

- RE classic 350 series and Himalayan – **Frame, Tank and silencer**.

TUBE PRODUCTS OF INDIA – (May 2019- July 2020)

Role: Quality Inspector

Job Responsibilities:

- Experienced on End of Line Inspection (Final inspection), Packaging inspection.
- **Handled Line quality inspection and Patrol inspection.**
- Documents Handling & Creation as per the Quality standards.
- Well Experienced on Sheet metal Roughness testing and material hardness testing as per customer requirement part inspection.

Projects Worked:

- TI cycles and Borg Warner – **Tubes and Sheet metals**.

ACADEMIC PROFILE

Academics

- **B.Tech Mechanical Engineering -** Currently Pursuing Dr. MGR University, Chennai.
- **Diploma in Mechanical Engineering (2016 – 2019)** P.T.Lee Chengalvaraya Naickar Polytechnic College

MY STRENGTH

- Self-confident ability to achieve short and long term goals
- Excellent human relation skills.
- Willingness to Learn
- Discipline and Loyal Work

PERSONAL PROFILE

1. Date of Birth	:	23rd Mar 2001
2. Sex	:	Male
3. Nationality	:	Indian
4. Languages	:	TAMIL & ENGLISH
5. Marital Status	:	Unmarried

DECLARATION

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Place :

Yours Truly,

Date :

(K. Sathya Raj)