

SAKTHIVEL.P

Role: Application Engineering – Graduate Engineering Trainee

Experience: 3 years

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Objective:

Well versed in conducting research and development of technical products and product design and development process. Seeking a challenging position as a Research & Development test engineer in a growth-oriented organization

Education:

1. Master of Engineering in **Automobile Engineering** (2017 – 2019) with 8.12 CGPA at Vels Institute Of Technology And Advanced Science, Chennai, India.
2. Bachelor of Technology in **Mechanical Engineering** (2011 – 2015) with 7.337 CGPA at SRM University, Chennai, India.

Summary of Experience (3 years)

1. Period : From June 2016 to June 2018
Company : **Stanadyne India Pvt Ltd** Application Engineering
Department - Trivallur
2. Period : From May 2015 to June 2016
Company : **Sri Aadiparaasakthi Enterprises** Non destructive
Technician – Ranipet

Computer Skills:

- **Database, CAD Tools : AutoCAD, CATIA V5, ANSYS, Nx12, MATLAB SIMULINK, Microsoft Excel, Ms Office**

Technical skills:

- **Non Destructive Testing ASNT Level II** (Penetrate Testing, Magnetic Partical Testing, Radiographic Testing and Ultrasonic Testing).

Professional Synopsis:

Company : Stanadyne India Pvt Ltd, Application Engineering,
Thiruvallur

Position : **GRADUATE ENGINEERING TRAINEE** – Engine Testing
(June 2016 – June 2018)

Roles and Responsibilities

- Perform and validation all calibration.
- Diesel engine controls for performance and emissions.
- Participate in various calibration improvement of engines and assess it in laboratory and, all cold, hot and altitude fields.
- Manage and implement all pre calibration processes and apply it effectively to all vehicle levels.
- Determine and maintain all hardware and software tools and coordinate with various engine management system.
- Perform tests and rides and monitor development of best common calibrations.
- Collaborated with engineers and project managers regarding design parameters for client projects.
- Prepared accurate specifications for purchase of materials and equipment.
- Planned and systematically executed various test procedures with the assistance of important requirements.
- Communicated with the research and testing staff members, and formulated proper rigs and fixtures for testing the automotive instruments and components.
- Provided test status and milestone charts to development teams Exposure in specification for all wiring harness application in vehicle.
- Expertise in development & development of fuel injection equipment and calibration for diesel engines.
- Behavior and performance analysis of rotary pumps and modifying to get better performance as per customer requirement.

- Testing and durability analysis of fuel injection pumps and Gasoline pump injector in Engines.
- Handling software like DAQ(Data Acquisition) labview, Pismoop(ECU calibration), Matlab simulink and Amesim.
- Emission and Performance Optimization in Engines Knowledge of analyzing turbo charged engines, internal and external EGR systems.
- Endurance validation and Analyzing of the Fuel Injection Equipments life & durability testings.
- Comparison and document preparation of Engine performance form various fuel injection pump.
- Catia V5 and NX as product design and development in Engines and fuel injection pump and strong in product design, sheet metal design, drafting, assembly design and wiring harness.

Professional Synopsis:

**Company : Sri Aadiparaasakthi Enterprises, Non Destructive Testing
Ranipet.**

Position : NDT Technician (May 2015 – June 2016)

Roles and Responsibilities

- Line inspection – structural heavy fabrication for power products.
- Structural heavy fabrication means mild steel that is angle, beam, channels, pipe rods.
- Power products like hopping walls, casing shells, column, roof panel, brazing.
- Line inspection are fittup, butt joint, welding visuals, stages & assembly dimensions and final inspection Visual inspection, Ultrasonic testing and Magnetic particle inspection on welds.
- Evaluate test result of various NDT methods against respective international standards and performed various non-destructive testing works as and when required.
- Providing technical support for engineering department in material selection, NDT Requirements.

Industrial Exposure

- Undergone an In plant training in **Ashok Leyland** (27/11/ 2012 – 1/12/12) and gained knowledge about Engine, gearbox, Front and rear axle Assemblies.
- Undergone an In plant training in **Brakes India Private limited** (02/06/2014 – 06/06/2014) and gained knowledge about manufacturing and assembly of brakes.

Published Paper

- Sakthivel, **ELSEVIER, Assessing the diesel engine performance using piston with dissimilar material piston rings.**

Personal Details

Date of Birth : 01/07/1994
Gender : Male
Father's Name : Mr. B. Palani
Mother's Name : Mrs. P.K. Selvalakshmi
Nationality : INDIAN
Marital status : Single

Languages Proficiency:

To Speak : Tamil & English.
To Read/Write : Tamil, English, Hindi

Declaration:

I hereby declare that the information furnished above is true to the best of my knowledge.

P.SAKTHIVEL

DATE: