

Resume

Ajay Nalawade

Greaves Cotton Limited, Aurangabad.

Designation: Engineer.

Department: Research and Development(R&D).

Role: Engine Calibration & Engine testing.

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Career Objective

To gain expertise and knowledge in the field of Engineering and effectively utilize them to contribute towards the growth of the organization and self and to work in a creative system offering technical challenges and opportunity to attain world class excellence as an engineer.

Professional Summary

Mechanical engineer with 4 years of experience in automotive industry. Specialization in engine calibrations, emissions controls & performance testing. Currently associated with Greaves Cotton Ltd, Aurangabad. as a Calibration and Engine testing Engineer in Research and Development department.

Job Responsibilities:

- EMS calibration with INCA software.
- Engine out emission calibration on engine and vehicle to meet target emission & performance.
- Full load & part load optimization on engine dyno.
- Preparing necessary test set up for calibration activities on the engine/vehicle.
- Performance and emission optimization (Steady State) of engine to compile with statutory requirements.
- Engine and vehicle calibration to accomplish specified requirements.
- Field data analysis and report creation.
- Tuning of engine parameters for improvement of Smoke, HC and CO.
- Conducting performance test such as:
 - 1.FTP (Full Throttle Performance).
 - 2.PTP (Part Throttle Performance)
- Analysing test data & take respective action based on results.
- Combustion pressure data with final calibrated dataset.
- IQA & Sensitivity trials for engine performance.
- Base engine calibration to achieve engineering target.
- Conducting emission & performance test for development trials.
- Validation of various engine components by performing durability test.
- Prepare dataset for emission test on vehicle.
- Coordination with test agencies like that ARAI for type approval & COP of engines

❖ **Functional Trials such as:**

- 1.Rated Power Test.
- 2.Mixed Cycle Durability.
- 3.LOC Test(Lub Oil Consumption).
- 4.Thermal Shock Test.
- 5.Diesel Blackening Test.

❖ **Knowledge of after treatment system:**

- 1.SCR system (Selective catalytic reduction) for reducing Nox in exhaust gases.
- 2.DPF (Diesel particulate filter) for reducing Smoke in exhaust gases.
- 3.DOC-POC (Diesel oxidation catalyst & Particle oxidation catalyst) For reducing HC & CO values in exhaust gases.

Skill Set

- 1.Engine Calibration.
- 2.Vehicle Calibration.
- 3.Engine Development.
- 4.Engine Testing.
- 5.Emission norms optimization
- 6.INCA base map calibration (Rail Pressure,Main timing etc).
- 7.Base engine calibration and combustion optimization on engine test bed.
- 8.Report preparation
- 9.Data Analysis.

Projects:

G599 W BSVI & G499 W BSVI:

- ❖ Working on G599 W BSVI CRDI Single Cylinder Water Cooled Diesel Engine for 3 Wheeler application.(Piaggio, Mahindra and Atul Vehicles).
- ❖ Working on G499 W BS VI CRDI Single Cylinder Water Cooled Diesel Engine for Ligier application.(4 Wheeler)

G599 W BS VI:

- ❖ Working on G599 W BS VI Semi-Electronic Single Cylinder Water Cooled Diesel Engine for 3 Wheeler application.(Piaggio and Atul Vehicle).

Interface tools and software

- 1.INCA v7.2
- 2.MDA v7.2
- 3.IYSYS
- 4.Uniplot
- 5.Creo
- 6.Solid works
- 7.Catia

Instrument Used

- Eddy Current Dynamometer, AVL 437 Smoke meter, AVL Blow by meter, Dynalec Gravimetric fuel consumption unit, YS coolant conditioning unit, YS fuel conditioning unit, SLASS(Sea level altitude of simulation system).

Academic Profile

Sr No .	Course	Institution	Board/University	Year Of Passing	Percentage/CGPA
1	B.Tech Mechanical	M.I.T College Of Engineering, Aurangabad	DR.BAMU	2018	6.56 CGPA
2	Diploma In Mechanical Engineering	Government Polytechnic, Murtizapur	Maharashtra State Board Of Technical Education(M.S.B.T.E.)	2015	65.91%

Personal Profile

Full Name : Ajay Narayan Nalawade
Date Of Birth : 26th March 1993
Gender : Male
Marital Status : Unmarried
Languages Known : English, Hindi and Marathi
Hobbies : Playing Cricket, Swimmingetc.

Declaration

I hereby declare that above stated information is true to the best of my knowledge and belief.

Date:

Place:

Ajay Nalawade