 **MuthuKumaran**

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| **Address:** | 82, Sea Breeze Flats, Thiruvanmiyur, Chennai, India |
| **Phone:** | 9840373103 |
| **Email:** | mj.muthu@gmail.com |
| **Birthdate:** | 10.05.1980 |
| **Nationality:** | Indian |

Professional Experience

**Senior Engineer in caterpillar at Chennai (Deputation from** Allygrow Technologies**)** 06/2017 – till

**Senior Engineer in caterpillar at Chennai (Deputation from** Axiscades**)** 11/2014 to 10/2016

**Senior Engineer in caterpillar at Chennai (Deputation from** Geometric**)**  11/2009 to 10/2013

**Key activities**

* Concept Design for off road Engines.
* Proposal drawing Creation for supplier review.
* Onsite Co-ordination with clients.
* Co-ordination for outsourcing Project.
* Detail design for engine components.
* Prepare detail drawing for engine components.
* Cost reduction projects
* Continues product improvement.
* EDN creation and updating. 2D to 3D Conversion.
* Performing Virtual Validation on Caterpillar Engines consisting of C13, C15, C32, 3400, 3500 & 3600
* Ability to perform tooling validation for Caterpillar Engines consisting of C9, C11, C13 & C175 platforms.
* Performing VDRA for fluid lines for all Engines.

Prepare Virtual Engine Installation layout using Vismockup

**Software used**

* Creo – 4, Team Center vismockup

**Senior Engineer in Ashok Leyland at Chennai (Deputation from** **AD Technology)**

**Key activities**

* White sheet design and development of 1.5-liter engine for LCV / passenger. Car application
* Benchmarking of various engine
* Systems /Sub system/Components study and comparison of benchmark engines
* Design and development of 3 Cylinder diesel engine review with AVL
* Verification and modification of cylinder block, cylinder head, exhaust manifold, valve train and power train components. Worked along with AVL engineers for the modification of the above through various stages of design reviews, and analysis
* Design review for 3-cylinder diesel engine development along with STC a major Power train consultant for major design freeze
* Member for the issue resolving for critical parts failure during durability test
* Development of prototype engine components
* Interaction in design and development of engine components
* Preparation of product acceptance standards based on design, manufacturing and quality requirement

**Handling design deviations based on manufacturing feasibility**

* Development of Components through Reverse Engineering
* Worked with scan engineering data of component profile
* Preparation of 3D component model and 2D drawing

**Product Design and Development activity**

* Preparation of DFMEA, conducting Design reviews and DVP activities.
* Assists in the preparation of the monthly project status report
* Allocation of engineering activities based on the gravity of the project involving cost.
* Arriving at engineering solutions for customer, supplier and manufacturing requirements

**Field failures**

* Handled major field failures for the components under preview.
* Conduction brainstorming for field failure.
* Root cause analysis for the field failure and narrowing down effective root cause
* Planning and execution for the permanent and temporary corrective action
* Systematic implementation of design change if required.
* Supports all design related component and manufacturing issues.
* Emphasis on quality, reliability, timely delivery, and cost.

**Software used**

* Creo

**Design Engineer in Pishon Engineers at Chennai** 11/2004 – 03/2006

**Key activities**

**Achieved in Designing and Development of Special Purpose Machines**

* Fixtures
* Creations of Assembly Drawing, Detail drawing, and BOM for Automatic and semi-automatic
* Reverse Engineering

**Software used**

* Pro- E & AutoCAD

Education

**Bachelors in Mechanical Engineering** 2004 – 2008

* Specialization – Automobile Engineering
* CGPA: 76

**Diploma in Mechanical Engineering,** 1997 – 2000

* Specialization - Automobile Engineering
* CGPA: 60

Software Skills

* Creo, Solid works, and AutoCAD (experienced)
* Unigraphics Nx , Catia (beginner)

Languages Known

* Englisch – Native
* German– A1, Currently doing A2 and planning to B2 level.