**Subash Ramasamy**

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**Profile**

Subash is a **Senior Engineer** and brings with over **7.3 years of automotive experience** in Design and Quality Assurance. He has exceptional skills in quality assurance process and design methodologies and brings with him a wealth of experience from **automotive industry** specifically in quality assurance and design processes.

He has worked with various customers like **Bosch Braking Systems USA, TRW Braking Systems USA, ZF Industries, Chrysler Mahindra Susten, Neapco** etc.

His expertise includes:

* Profound development experience and expertise in designing software **Inventor 2017, AutoCAD Mechanical 2017**
* Exceptional skills in quality monitoring of monthly Measurable, Updating the Internal PPM Rejection and Creating Standard Operating Procedure (SOP)
* Good hands-on experience and knowledge in ERP systems

**Skills**

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| --- | --- |
| * AutoDesk Inventor 2017 | * AutoCAD Mechanical 2017 |
| * Production Part Approval Process | * Control Plan |
| * Failure Modes and Effects Analysis | * Statistical Process Control |
| * Measuring System Analysis | * 7QC Tools |

**Major Project Achievements**

* As a CFT leader Subash has reduced internal rejection and customer complaints
* Successfully carried out Continual Improvements (KAIZEN) effectively
* Rewarded for successfully implementing suggestions for process improvements
* Successfully finished Single Axis Solar Tracker project

**Work Experience**

* **Super Auto Forge Private Limited, Chennai From June 2010 – Present  
  Senior Engineer**

Super Auto Forge Private Limited is the largest manufacturer of Cold & Warm forged components in India and for some of the product families like CV Joints, Aluminium Braking parts. Serving a global client base, it has the strong product portfolio in Braking, Drive shaft, Power transmission, Steering, Suspension assemblies and Non-Automotive.

**Roles and Responsibilities**

* + Creating 2D models using AutoCAD and 3D models using AutoDesk Inventor
* Design Pneumatic & Hydraulic Circuit according to design of the machine
* Drafting, Detailing, GD&T for the release of approved drawing
* Providing Manufacturing Drawings and BOM for Assemblies
* Generating and maintaining final inspection report in ERP
* Measuring and Monitoring MIS reports on variances and performances
* Organizing PPM review meetings
* Customer complaint analysis and follow up of FIR reports
* Global 8D activities and reports
* PPAP submissions
* Auditing for Product and Layout inspection
* Internal audit process adherence
* Dimensional inspection report and initial SPC studies for PPAP
* Approval for New development product

**Projects in Detail**

Organization : Super Auto Forge Private Limited, Chennai

Project : Cross Axis Ball Joint Assembly Line

Customer : Chrysler, General Motors

Role : Senior Engineer

Duration : 12 months

This project deals with minimizing the time and to increase the productivity of the Ball Joint Assembly line. In this project the whole assembly line was automated in order to increase the production of the Ball Joint with Zero PPM. This assembly line includes testing machines like Rotary Torque, Radial End Play.

Organization : Super Auto Forge Private Limited, Chennai

Project : Single Axis Solar Tracking System & Slope Tracking System

Customer : Mahindra Susten

Role : Senior Engineer

Duration : 14 months

This project deals with rotating and tilting the entire assembly line which consists of 72 panels and Torque Tube by using Linear Actuator 12000N for Single Axis Solar and Slope consists of 93 panels by using Slew Drive.

Organization : Super Auto Forge Private Limited, Chennai

Project : Indigenous Linear Actuator

Customer : Mahindra Susten

Role : Senior Engineer

Duration : 8 months

This project deals with rotating the entire 60 solar modules by using the linear actuator. It will pull & Push the solar modules with torque tube. It’s consists 12000N, no load condition 3.0 mm/s, load condition 2.3 mm/s & stroke length is 700mm.

Organization : Super Auto Forge Private Limited, Chennai

Project : Quality Assurance

Customer : Bosch Braking Systems USA, TRW Braking Systems USA, ZF Industries

Role : Engineer

Duration : 42 months

Quality Improvement

* Planning, Organizing & Implementing cross functional teams to implement world class quality in the organization to deliver best quality product

Quality Assurance & Quality Audit

* Verifying systematically of Total Quality by conducting various audits on Process, Product and Layout

Quality Engineering

* + Organizing and coordinating quality improvement projects on product, customer complaints, field failures, process deviations
  + Identification of critical, safety and regulation parameters of product and process performance through PFMEA

Process Improvement

* + Preparing a master list of customer related processes and tracking to ensure the compliance

Technical Assurance

* + Checking and Approving the Final Inspection report and sending the same to the customer on regular dispatch and monitoring trends

Customer Quality

* + Developing tracking system for customer complaints, field complaints for analysis, prioritization, corrective action, cut off point
  + Identification of training needs for Final Inspectors and upgrading team skills
  + Developing Skill Matrix and conducting Training for Final Inspectors

**Education**

* **Bachelor of Engineering,** Mechanical **2007 - 2010**  
  Anna University, KCG College of Technology, Chennai, India

**Certifications and Training**

* DFMA Training Programme **(DFA & DFM)** @IMTMA Technology center, BIEC, Bangalore
* Participated in **ISO 14001:2004** and **OHSAS 18001:2007**conducted by International Quality Management (IQM) consultants
* ISO/TS 16949:2009
* Global 8D
* 7 QC Tools
* Failure Modes and Effects Analysis **(FMEA)**
* Production Part Approval Process **(PPAP)**