

## S.Ananthakumar

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### Synopsis

**Result oriented Metallurgist with 15years of experience with Tier-1 in the field of Material testing and Failure analysis of Automotive components, Supplier Quality Audit, Material selection, wire drawing, Castings, Heat treatment, Process improvements.**

#### Core competence:

- R&D, Quality control (QC), and New Product Development (NPD).
- Customer Complaint and Material Analysis by using Microscope & other metallurgical equipment's.
- Value Engineering (VE), Benchmarking (BM).
- Lean Manufacturing, KAIZEN, ISO 9001:2015, IATF-16949& CQI-9 Std.

### Work Experience

**M/s. Lakshmi Card Clothing Manufacturing company pvt ltd, Coimbatore-(Jan.2023 - Till date)**

#### **Position held: Engineer - Metallurgist.**

Lakshmi card clothing, established in 2008, is a manufacturer of carding related parts for spinning mills. The products were manufactured through high carbon steel with alloys.

#### Key Responsibilities:

- Incoming inspection of all indigenized & imported raw materials as per TDC standards.
- Monitoring and controlling product Quality from incoming to various stages of manufacturing conformance to system requirements.
- Failure Analysis of defective carding parts & identifying the mode of failure and providing the countermeasures.
- Ensuring proper function of metallurgical lab equipment's and maintaining their work instructions.
- Documentation and monitoring controls of various stages of inspection.
- Planning and Implementing Calibration of measuring and monitoring equipment as per the plan.
- Sound knowledge in metallographic techniques.
- Expertise in various heat treatment processes including special processes like Spheroidization annealing, Flame hardening & Induction tempering and Lead Patenting.
- Knowledge of wire drawing process with medium & high carbon steel with alloys of hot rolled wire rods.
- Leading role in controlling the material quality (metallurgical) from suppliers through planned audit inspection, quick feedback to suppliers and expertise inputs.
- Company appointed Metallurgist consultant (Doctorate) for improving quality of RM & other process. I am getting cleared my technical doubts as well as learning metallurgical related topics especially spheroidization annealing, wire drawing, pickling, zinc phosphating, flame hardening & induction tempering.

#### Noteworthy assignments:

- Reduced mold powder 20grams from 40gms for failure analysis parts, thereby directly cost reduced 20%.
- Re-using of already prepared mold for new material analysis thereby purchasing of mold powder significantly reduced.

**M/s. Balaji Induction-Coimbatore, Precision Heat Treaters -Coimbatore (From 2018to2023)**

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**Position held: Metallurgist - HT & Lab**

**Key Responsibilities:**

- Responsible for complete Process parameter control of Gas carburizing and case hardening Process in Batch type Furnaces.
- Exposure in Gas Carburizing, Induction Hardening, Through Hardening, Normalizing and Annealing processes and process trouble shooting.
- Responsible for metallurgical Inspection of the finished products (Microstructures, Case depth & Surface Hardness).
- Profound working knowledge of Metallurgical Microscope, Micro Vickers & Rockwell Hardness Testing machines.
- Hands-on experience in a modern Heat Treatment shop with Pit type Gas Carburizing Furnace (GCF), Bogie hearth Box type furnace, Mesh belt continuous furnace and Induction Hardening furnace.
- Analysis of process failure & continuous process improvement.

**M/s. L.G Balakrishnan & Bros Ltd, (Chain division), P.Palayam, Annur, Coimbatore (Feb 2016- May.2018)**

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**Position held: Assistant Engineer - Metallurgist**

Manufacturing and supply of Drive Chains, Sprockets, Guides, Fine Blanked Components, Precision Machined Parts, Products to Automotive applications. (Major customers are M/s Bajaj, M/s Hero, M/s TVS, M/s Honda, M/s Royal enfield etc.

**Key Responsibilities:**

- Exposure in Gas Carburizing, Carbo nitriding, Induction Hardening, Through Hardening, Normalizing and Annealing processes and process trouble shooting.
- In process and Final inspection of Heat-Treated Parts.
- Exposure to handling the metallurgical testing equipment's. (Microscope, Micro Vickers, etc)
- Lab inspection activities (Metallurgical inspection of the heat-treated components.
- Diagnosing Heat Treatment process problems and providing solution to respective vendor.
- Heat Treatment process development at in-house and Vendor for New products in Rotary, GCF, CMBF,
- Failure Analysis of Heat-Treated parts. Handling of customer complaints.
- Implementing and maintaining of Quality procedures and quality standards.

**M/s. Anugraha Valves Casting Ltd (Foundry Division)-(ISO-9001-2015), Arasur, Coimbatore (From 2011 to 2016)**

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**Position held: Junior Engineer - Metallurgy.**

**Key Responsibilities:**

- Inspection of hardness in Rockwell & Brinell as per the customer requirements.
- Inspection of Casting defect, microstructure and analysis of failure components and other metallurgical aspects.
- Raw Materials Inspection of casting components like IGC testing, Radioactive contamination Checking, hardness, Micro and chemical composition and incoming sand, Additives inspection.
- Responsible for complete Process parameter control of oil gas hardening & tempering, Solution annealing furnace & water quenching.
- Preparation and maintain the ISO documents.

Position held: Shift Metallurgist - Foundry

**Key Responsibilities:**

- Planning & executing the Shop-floor operations Like Induction Melting; Charge calculation, melt composition adjustment, metal treatment, pouring. Moulding; Maintaining the Quality and quantity of mould and moulding sand. Ensuring sand plant activities. Ensuring Heat treatment activities like Annealing, Normalizing, Centrifugal casting and all other Foundry related activities in steel casting, Grey and SG Iron grades.
- Controlling the chemical composition, casting defect analysis, Improvement in existing toolings.
- Preparation of process sheet accordingly for each SG casting iron and Rolls, Gray Cast Iron and steel casting alloys.
- Conduct chemical and physical analytical testing for steel casting, Grey & SG Iron grades.

**Education**

- **Class X** from State board, Tamil Nadu, 2004 with 80.8%.
- **Class XII** from State board, Tamil Nadu, 2006 with 60%.
- **Diploma in Metallurgical Engineering**, Annai J.K.K Sampoorani Ammal Polytechnic college, Erode, 2009 with 75.42%.

**Personal Details**

DOB: 30.06.1988, Nationality: Indian  
Languages Known: Tamil, Hindi & English  
Notice period: 3 months.

**Declaration**

I hereby declare that the above written particulars are true to the best of my knowledge and belief.

S.Ananthakumar