

## RESUME

**MANOJ.M**

#80,2<sup>nd</sup> main road sriranganagara, B.S.K 3<sup>rd</sup> stage,  
Bangalore-85

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### Objective

- To be a significant part of a growing organization by exploiting the best of my skills for its growth and development

### Technical skills

<b>Software skills:</b>	Solid works 2018, Pro-e / Creo-4,AutoCAD 2010
<b>Simulation Tool:</b>	SOFTCAST (Casting simulation and Method Design) Z-CAST ( Solidification module, Flow module, Heat stress module) Click2CAST (Solidification & Flow module)

### Professional Experience - Overall 5+ years' experience as CASTING Specialist

**Honeywell Technology Solution Deployed by RLABS Enterprise Public Ltd** Bangalore-103, Worked as **Advance Manufacturing Engineer (Performance Material Technology Dept.) (17-06-19 to Till now)**

#### Roles & Responsibilities:

- Should costing based on Best in class & AS-IS condition for different Casting commodities- Sand casting, Investment casting & Gravity die casting ( for Ferrous & Non- Ferrous materials) & Machining commodities for Casting machining, Block/Bar machining, Turned parts etc..
- Analyzing the low cost country for manufacturing the product (Transition costing & suggestion for different regions India, China, USA, European country etc...)
- Cost gap analysis & identify inefficiency in manufacturing process(Suggesting Process Engineering)
- Identify cost reduction opportunities in process
- Analyzing manufacturing process, methodologies, technologies for possible optimization by reducing labor, cycle time etc.
- With Target costing negotiation with vendors & New vendor development
- Report generation of Should costing for Incumbent & Transition.
- Debriefing should cost saving opportunity with Commodity Manger & Global Leaders (India, USA, Germany etc...)

**GCI Castings India Pvt Ltd.** Bangalore-105, Worked as **Development Engineer (01-07-17 to 15-06-19)**

#### Roles & Responsibilities:

- Enquiry analysis based on Customer requirement
- Preparation & analysis of estimated cost v/s actual cost for sample development casting
- Creation of method layout & analyzing casting defects using Casting simulation Tool
- Leading all New Product Development from Casting assessment, Design of feeding system & Gating system, Process Document and Process follow up from development to final inspection
- Solving all issues associated with the path of product development with creativity and smart designs
- Root cause analysis, Corrective & preventive action

7. Update item masters, product process documents and general database maintenance in support of project activities and the efficient running of the system.
8. Carrying out Metallurgical Analysis using Microscopic examination & Chemical Analysis using spectrometer

### Projects carried out

- Header & Pallet (concrete pipe ends) developed for 18", 24", 30", 60", 72", 84", 96" Header & Pallet etc. Maximum casting weight of 2.4 Ton developed for 120" Pallet & Header for **GCI EXPORTS**
- 600, 750 Dust collector valve body & End covers for **Rotolok Valves**
- Machine Bed, Z-Slide, Head stock, Tail stock, Top base, Guide way for **ACE Designers**
- New Base frame, Stand Gearing Inside, Base upper Roller, Frame inside etc... for **KTTM**
- Developed Motor Bodies, Impeller, End Casings, Vanes, Covers, Machine Columns, Gear Boxes, Gear wheel, Front end Cylinder Heads & Blocks and all engineering items
- Any items can be developed with meeting the customer quality requirements in short lead time in **FIRST TRAIL OK** with high yield

### **ORIENTAL SOFTWARE PVT.LTD.** Richmond Road, Bangalore-25

Worked as **CAD Engineer (SoftCAST Casting simulation)** from **Oct 2014-June 2017**

#### **Roles & Responsibilities:**

1. Expertise in Methoding (Feeding and Gating system Design with theoretical calculation) for Sand casting , Investment casting, Gravity die casting process, involved production of both ferrous and non- ferrous (steels, GI, SG Irons, Aluminium, Brass etc.) alloys
2. Assign the process parameters as per data sheet in SOFTCAST and run the simulation
3. Maintain expert level of product knowledge and application
4. Contribute to the development process demonstrating ideas through Casting simulation & Methoding 3D models.
5. Interact with customers to provide and process information in response to inquiries, concerns, and requests about products and services
6. Installation and Training at Client locations all over India
7. Technical Support and Online training/ Demo to the overseas customers via remote connection
8. Visiting foundries and Trained customers on simulation software

### Foundry Visit and Customer Training

- BARODA HI-TECH ALLOYS, BARODA( SG Iron, Sand casting process)
- GUJARATH METAL CAST, RAJKOT (SG IRON, Full mold process)
- JAGADEESH IRON AND STEELS PVT.LTD, MAHARASTRA (CI & SG IRON, Green sand process)
- DELTA TECHNOCAST, RAJKOT (STEEL, Investment casting)
- A CAST ALLOYS, RAJKOT (STEELS, Sand casting process)
- RAJAMANE INDUSTRIES, TUMKUR (ALUMINIUM, Die casting process)
- TECHNO RINGS, SHIMOGA (SG Iron, Arpa Molding) etc...

### Educational Qualification

- **MTECH** in **Computer Integrated Manufacturing** in **DSCE** with 76.2% from VTU (2012-14)
- **BE** in **Mechanical Engineering** in **CEC** with 58% from VTU(2009-2012)
- **Diploma** in Mechanical Engineering in **PESPT** with 65% from B.T.E (2006-2009)
- **Passed Higher Secondary Education** in **VBV** with 64.64% from SSLC Board (2006)

## Education Projects

- Project on In-process measurement of surface roughness of Milled components using Vision system.
- Project on Austempered Ductile Iron, process of converting Ductile Iron into Brittle material by Cryogenic treatment.

## Achievements

- Submitted research paper in International Journal at **ICRAES-2014 @MSRIT** on “**In-process measurement of surface roughness of Milled components using Vision system**”.
- Represented as an Exhibitor on behalf of “**Oriental Software Pvt. Ltd.**” At **IFEX-2016** held in Coimbatore
- Improved overall method yield from **72%** to **85%** with **Riser less designs**
- Reduced trial and error method in the shop floor & reduce the rejection of the casting by using casting simulation & methoding strategies
- Cost saving Implemented 450K\$ savings within 6 months of project. Negotiation of saving opportunity 2+million\$ in pipeline

## Personal Traits

- Good Theoretical skills
- Problem definition, problem solving, and project management exposure, including computer-based tools that assist in these areas.
- Maintain a positive attitude in addressing concerns.
- Willing to take ownership efficiently working to drive tasks to completion
- Ability to work in a team environment, supporting overall goals through active participation and valuing the unique skills
- Grasps technical concepts and communicates them quickly
- Responsibility, Accountability, Immediate action

## Personal Details

**Name** : Manoj.M  
**Date of Birth** : 28/09/1990  
**Father's Name** : Muthaiah  
**Mother's Name** : Girija  
**Sex** : Male  
**Nationality** : Indian  
**Religion** : Hindu  
**Languages Known** : Kannada, English, and Hindi.  
**Permanent Address** : #80,2<sup>nd</sup> main road sriranganagara, B.S.K 3<sup>rd</sup> stage,  
Bangalore-85

### Declaration:

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

Place: Bangalore

(Manoj.M)