

# SACHIN JAIN

## B.TECH.(METALLURGY)

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### Objective:

To take up new challenges in the global market of Quality / engineering / R&D / manufacturing by utilizing my strengths of analysis /problem solving / innovation for the betterment of the engineering industry while still honing my own abilities further.

### KEY SKILLS:

#### Competent in:

- Heat treatment (Carburising, Carbontiriding, Hardening, Tempering, etc.)
- Microstructure examination
- Hardness check, BHN, HRB, HRC (ferrous).
- Shotpeening, Shot Blasting
- Induction Softening,
- Magnetic Particle Inspection
- T.S. 16949
- 5-S. Kaizen, Poka Yoke
- Calibration of the above equipment.

### Education

2004	B.Tech (67.6%)	Malviya National Institute of Technology, Jaipur
	<i>Metallurgical Engineering</i>	
1997	12 <sup>th</sup> (54.15%)	Shri Mahavir Digambar Jain Sr. Sec. School, Jaipur
1995	10 <sup>th</sup> (56.17%)	Shri Mahavir Digambar Jain Sr. Sec. School, Jaipur

### Professional Summary

Over thirteen years of experience in Operations Management and Quality Maintenance, quality control, Heat treatment and lab operation.

Functional Knowledge and understanding of various Heat treatment processes like Carburizing, Hardening, Carbonitriding, etc.

Ability to support and sustain a positive work environment that fosters team performance with strong communication and relationship management skills.

B.Tech with specialization in Metallurgical Engineering from Malviya National Institute of Technology, Jaipur.

### CURRENT EMPLOYMENT:

#### FIAT INDIA AUTOMOBILES LIMITED (FIAT-TATA JV)

##### Fiat Powertrain Technologies Deputy Manager

since November 2008

Fiat Power Train India Limited is an Auto manufacturer. It is manufacturing a Powertrain for Fiat & Tata motors Ltd. It is follow a World Class Manufacturing System. Fiat uses a Vacuum Heat treatment process for heat treatment of Transmission gears & shafts.

##### Key Performance Areas:

Monitoring and control a heat treatment operation like case carburising, tempering operation and check metallurgical parameters of the component (Case Depth, Surface Hardness, and Core Hardness).

Study the metallurgical aspects the various heat treatment operation and their micro and macro structures with their mechanical properties.

Heat treatment new process setup in Vacuum furnace (ICBP Furnace).

Involved in establishment of vacuum carburising parameters for different materials (20MnCr5, 27MnCr5.) also involved in establishment of special processes like induction softening/shot peening.

Looking all metallurgical lab instruments, monitor & control metallurgical parameters.  
Safety Pillar, A.M. Pillar & Energy Pillar co-ordinator for department.

**Achievement:**

1. Won 4<sup>th</sup> prize in C.E.O. innovation awards: Productivity enhancement on shot peening machine.
2. Won 3<sup>rd</sup> prize in C.E.O innovation awards: Reduce Conversion Cost of Heat Treatment Process per Transmission.
3. Won 5<sup>th</sup> prize in C.E.O. innovation awards: Reduce crack percentage of Input shaft.
4. Won 3<sup>rd</sup> prize in C.E.O. innovation awards: Reduce energy loss by communization of material.
5. Won 5<sup>th</sup> prize in C.E.O. innovation awards: Reduce type 3 energy loss by optimization of heating time.

**Musashi auto parts India pvt ltd Bawal.  
Shift Engineer**

since February 2007 to Oct-08

**COMPANY PROFILE:**

For the response to the global market MUSASHI group is strongly promoting the world wide network system through five global bases (Japan, North America, South America, Europe & Asia) and moreover established sales office in Europe & North America where product in good demand through their global network system which are five basis over the world including the head quarter in Japan. They are able to supply the product that customer needs by the best combination of those resources

**Operations Management**

Monitoring and control a heat treatment operation like case carburising, carbonitriding, hardening , tempering operation and check metallurgical parameters of the component (mechanical properties)

Monitor the production process to ensure the meeting of targets as per company's norms of quality and time parameters.

Manage inventory to ensure timely and quality supplies without hampering the production process.

Supervise the functioning of manpower and undertake planning & ensure appropriate productivity & output.

Study the metallurgical aspects the various heat treatment operation and their micro and macro structures with their mechanical properties.

Monitoring and control shot blasting operation and manage inventory for hard line and Assembly.

Monitoring and control the LFQ (Low frequency quenching), straightening operation.

**Bajaj Motors Ltd. Gurgaon.**

Engineer -In charge Heat treatment.

Since Oct-04 to Dec 06

**Bajaj Motors Ltd** is an Auto-component manufacturer. It is a major supplier of auto-components to Hero Honda, Suzuki Motorcycles, Tata Motors, and Electrolux. Etc. It is a TS-16949 certified company. It also implements concepts like 5S, Poka-yoke and is going in for TPM **award**.

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### **Training**

Organisation : HINDUSTAN ZINC LTD., Rampura Agucha, Bhilwara

Duration : 30 days

Organisation :( ASIL STEEL INDUSTRIES LTD) ANIL SPEACIAL STEEL LTD.,  
Kanakpura, Jaipur

Duration : 45 days

Key Learning : Studied & observed the process & working in the plants with the aim to understand the processes to metallurgical aspects. Underwent in depth study for extraction from ores, crushing, and grinding, screening, floatation. Thickening process and the involvement of metal phenomenon on each step for further improvements was suggested for final output.

In ASIL steel, hot rolled steel used as a raw material and pickling (contain 50%HCL and 50%H<sub>2</sub>O), cold rolling, and intermediate annealing (Re-crystallization annealing) for removing internal stresses and again cold rolling after that hardening and tempering has done (according to hardness required by customer).

### **Academic Project**

Title Effect of mechanical vibration during solidification of Aluminium Silicon  
Binary alloys

Organisation MNIT, Jaipur

Description Studied how metal properties affected by mechanical vibration and learnt how it affected mechanical properties like Hardness, Tensile strength, Porosity.

Studied alteration with vibration.

### **I.T. Skills:**

OS Windows, MS- DOS

### **Personal Details:**

Date of Birth 17th July 1981

Present Address B-305, Shivam Building, Rudra Society, Wagholi Pune, Maharashtra.  
PIN: 412207

Permanent Address 111/340, Agarwal farm Mansarovar  
Jaipur, Rajasthan. PIN-302015

DATE:  
PLACE:

**(SACHIN JAIN)**