

Professional Experience

07/2016 – till date

**Metallurgical Engineer in Bharat Forge, Pune, India**

* Responsible for New Product Development, Process validation & qualification
* Interact with customers to discuss technical issue to have progress review meetings
* Conduct Heat treatment process validations and audits with MQC Team
* Technical Report Preparation : Failure and root cause analysis of metallurgical findings
* Supports VA/VE activities: alternate materials for driving same / better performance
* Collaborates with external partners on developing materials and processes
* Hands on experience on testing equipment’s like hardness testers, Spectrometer, advanced characterization techniques like Optical Microscopy, XRD, SEM with EDS / WDS, EPMA, EBSD, Dilatometry, Thermal analysis etc
* Experience with QMS like DOE, FMEA, SPC, ISO9001, IATF/TS16949

08/2011 – 06/2014

**Project Engineer in Bharat Forge, Pune, India**

* Reconditioning and retro-fitting of special purpose CNC Machines Tools
* Geometric Alignment & testing of machines and subassemblies as per ISO (DIN 879)
* Knowledge about mechanical, pneumatic, hydraulic fields and troubleshoot problems

Education

2014 – 2016

**Masters in Material Science & Technology, DIAT, Pune**

* Material Science, Mechancial & Physical Metallurgy, Material Processing
* 8.1

2007 – 2011

**Bachelors in Mechanical Engineering, BAMU Aurangabad**

* Mechancial Engineering, Machine Tool, Hydraulics, Pneumatics
* 7.0

Software Skills

* MS-Office, Origin, EBSD, X-pert High score, Image J

Languages Known

* English – C1
* German – A0

Skills and training

* Metallurgy, Product Development, Manufacturing Technology, Innovation, Forging
* Workshop on advance steel technology, aerospace materials, failure analysis

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Nagaraj Patil

