

# MANIRAJ PERUMAL

Prototype Engineer

## PERSONAL SUMMARY

One of well-known name in the world of prototype industry is proud enough to declare, hands on knowledge and experience in various prototyping process as well as the explorer of upcoming technologies in this area. I am also privileged for playing a key role in setting up the country's three best prototype facilities from scratch.

Easy going by nature helps to get along with work colleagues and managers. At present my focus is on "Direct metal laser sintering" rapid prototype machine bench marking to try and test the parts for power train.

## WORK EXPERIENCE

Hero MotoCorp Limited - Jaipur  
Section Head (Deputy General Manager) June 2012 - Present

### Role:

Lead prototype section wherein the prototype parts of engine & chassis are manufactured to achieve Project Schedule as per milestones & EBITDA targets. Ensure the prototypes manufactured meets functional requirements and confirm all specification of parts is equivalent to as per design's specifications. Expertise is required in mass manufacturing as well as prototype manufacturing in machining, casting & sheet metal.

### Responsibilities:

- Proto-parts manufacturing Plan
- Weekly Reviews with functional lead
- Daily review with team leads on manufacturing progress
- New Machine/equipment planning & establishment
- Process Innovation implementation
- Capability study and facility addition of protoshop
- People Development & Team Management in Functional competency & behaviour aspect
- Prototype parts manufacturing Cycle time reduction
- System establishment
- Project development
- Safety inspections
- Collating statistics and compiling reports

Bajaj Auto Limited - Pune  
Section Head (Manager) June 2003 – May 2012

UEEC - Coimbatore  
Unit Head (Works Manager) August 1998 – May 2003

## KEY SKILLS AND COMPETENCIES

- Aluminium Sand casting Practice
- Sheet metal works
- Rapid prototyping working knowledge in various process techniques
- CNC machining & machine tool knowledge

- CI casting practice
- Prototype tooling
- Silicon Moulding
- RP machines and plastic RP material knowledge
- Team Building
- Motivating colleagues
- Managing budgets
- Producing management reports

## **AREAS OF EXPERTISE**

- Sand & Die casting on Aluminium alloys
- Part Machining & tooling
- Machine Procurement
- Fabrication of Two wheeler frame & chassis
- RP machine basic & working principle.
- RP material
- RP tooling

## **ACADEMIC QUALIFICATIONS**

Bachelor of Engineering (B.E) - Mechanical Engineering  
Government College of Technology, Coimbatore 1991 - 1995.  
Bharathiar University, Coimbatore

Post Graduate Diploma in General Management  
Emeritus Institute of Management, Singapore-2017.

## **PERSONAL DETAILS**

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