Dear Recruiter,

My self Akshay Ramesh More. I am a mechanical engineering graduate with 7 years of experience in designing, engineering and manufacturing of material handling equipment and heavy machineries.

I have good academics and required qualifications, also I am well versed with technical skills. During my work tenure I have gained good experience and knowledge in the field of machine design and engineering.

Now I am currently working with Hercules Hoists Limited (Bajaj Indef) as senior design engineer and I am looking for more challenging and senior role.

Here along with this cover letter I have attached my basic bio-data and my detailed professional CV. I am hoping that my qualifications, skill-sets and experience will fulfill your requirement.

Sincerely,

Akshay More

# Basic Information

| | |
|---|---|
| **Name** | Akshay Ramesh More |
| **Date of Birth** | 28th May, 1995 |
| **Marital Status** | unmarried |
| **Highest Qualifications** | B.E. (Mechanical Engineering), 2016 |
| **Total Years of Experience** | 7 Years (as on June 2023) |
| **Profile Domain** | Material Handling Equipment and Heavy Machinery Design |
| **Current Organization** | Hercules Hoists Ltd (Bajaj Indef) |
| **Current Role** | Senior Design Engineer |
| **Current CTC** | 6.5 LPA (excluding health insurance and other benefits) |
| **Current in-hand Salary** | 41,251/- |
| **Expected CTC** | Minimum 40% hike on current (also depends on company policies) |
| **Notice Period** | 1 month compulsory + 2 months buy-out option |
| **Current Location** | Panvel, Navi Mumbai |
| **Ready to Relocate** | Yes, for good opportunity |

# Akshay More

**Mechanical Engineer (B.E.)**


*Panvel, Navi Mumbai*
*makshay315@gmail.com*
*9326319035/8149516457*
*D.O.B. 28.05.1995*


## Profile Summary

*Mechanical design engineer with 7 years of experience in design and engineering of*

1. Material Handling Equipment (MHE)
2. Heavy Machineries

## Work Areas

- R&D
- Design & Engineering
- CAD
- FEA, Simulation & CAE
- VA & VE
- NPD

## Project Summary

- **Overhead Material Handling**
  1. Man Cum Material Hoist (Lift)
  2. Wire Rope Hoist (Electric)
  3. Chain Hoist (Electric)
  4. Chain Pulley Blocks (Manual)
- **Lifting Equipment**
  1. Spreader Beam
  2. Coil Lifters
  3. Lifting Beam
  4. C Hook
- **Jigs and Fixtures for**
  Machining, Welding, Assembly
- **Inspection Gauges**
- **MHE (Hydraulic)**
  1. Scissor Lift
  2. Goods Lift
  3. Dock Levellers
  4. Conveyors
- **Machines and Equipment**
  1. Industrial Gearbox
  2. Sonar Winch
  3. Automatic Flushing System

## Highlights of skill Sets and Work Profile

### Major Skills

- Machine Design
- Industrial Hydraulics & Pneumatics
- Sheet Metal Design
- Steel structures for Machines
- Manufacturing

### Software Skills

- Solidworks
- AutoCAD
- CREO
- Solidworks PDM (Vault)
- Oracle (ERP)
- MS Office Tools (Word, Excel, PowerPoint)
- Google Tools (Sheets, Docs, Slides, etc.)

### Design of Parts & Assemblies of

- Machined Components
- Fabricated Components
- Weldments & Structures
- Castings & Forgings
- Sheet Metal Components

## Qualification and Certification

- **Bachelor of Mechanical Engineering (2013-2016)**
  University of Mumbai, 7.42 CGPI
- **Diploma in Mechanical Engineering (2010-2013)**
  Government Polytechnic Mumbai, 73.25 %
- **Certification in CNC Programming & Machining (2016)**
  IDEMI Mumbai, A Grade
- **Certification in CAD (AutoCAD, Solidworks & CREO) (2015)**
  CAD computer Education, Navi Mumbai, A+ Grade
- **Certification in Computer Operation (2008)**
  AICTPR, A+ Grade
- **S.S.C. (10TH) (2010)**
  Maharashtra State Board, 90 %

## Good exposure to following activities

- Complete case study of a project
- SOPs (Standard Operating Procedures)
- QAPs (Quality Assurance Plans)
- MPPs (Manufacturing Process Plans)
- Cost Sheets / Estimation Sheet
- POs (Purchase Orders)
- Project Scheduling Sheets
- ISO Documentation

## Employment History

- **Drives & Drives (June 2016 – November 2019)**
  Design & Application Engineer (3 Years & 5 Months)
- **Arieckal Industries (December 2019 – January 2022)**
  Design Engineer (2 Year & 2 Months)
- **Everest Engineering Equipment Pvt Ltd (Feb 2022 – July 2022)**
  Design Engineer (6 Months)
- **Hercules Hoist (Bajaj Group) (July 2022 – Current)**
  Senior Design & Development Engineer (11 Months)

***Total Work Experience: 7 Years & 0 Months***

## Highlights of skill Sets and Work Profile

- Engineering Drawing and Drafting
- Material Selection
- Design Engineering calculations
- Standard Parts/Bought outs selection
- Standard Part Design
- BOM Preparations
- Surface Coating & Surface Treatments Processes
- Heat Treatment Process Selection
- Dimensional Metrology, Tolerances, GD & T
- Measuring Instruments
- QA and Testing Processes

## Details of Work Experience & Projects

### Hercules Hoists Ltd (Bajaj Indef)

***About The Company:***
A manufacturer of overhead MHE equipment such as electric wire rope and chain hoists, chain pulley blocks, cranes, stackers etc. It is a listed company with annual turnover of 158 Cr (2022-23) with 170 plus direct employees

***Roles & Responsibilities:***
1) Designing of ***wire rope hoist, chain hoists and manual hoists (CPBs)*** for various applications and capacities referring IS standards
2) Designing & optimization of ***special hoists*** such as ***flame proof hoists, short head room (SHR) and ultra -short head room hoists (USHR), hoist speed hoists***
3) Designing & optimization of hoist for special applications such ***cleanroom, seismic, spark proof*** etc.
4) Performing ***design calculations & optimization using solidworks simulation*** of new parts, assemblies and structures
5) Selection of standard bought outs such as wire ropes, load chains, hooks, motors, gearboxes, fasteners, bearings etc.
6) Design and optimization of 3-stage reduction gearboxes
7) Designing of parts such as rope drums, load chain wheels, hand chain wheels, structural components etc.
8) Tackling shop floor issues during manufacturing and assembly

### Everest Engineering Equipments Pvt Ltd

***About The Company:***
A manufacturer of MHE equipment for building construction such as material cum passenger hoists, tower crane etc. It is a medium scale company with annual turnover of 25 Cr (approx.) with 50 plus direct employees

***Roles & Responsibilities:***
1) Designing of ***passenger cum material hoist (lift)*** to be used in under construction buildings referring IS standards
2) Performing analytical calculations and optimization using solidworks simulation for design of cage lift, mast sections for travel of lift, supporting steel structure for various capacities and different wind load and seismic load conditions
3) Selection of bought-outs such as motors, gearboxes, fasteners, bearings etc.
4) Creating and checking detailed manufacturing drawings of parts and assemblies
5) Legacy drawing conversion in CAD formats

### Arieckal Industries

***About The Company:***
A manufacturer of special machines, gauges, valves, LPG fittings mainly for government bodies such as railways, Navy, armed forces. It is a small scale company with annual turnover of 10 Cr (approx.) with 30 plus direct employees

***Roles & Responsibilities:***
1) Designed machines for special applications such as sonar winch for navy, pressurised flushing system for railway etc.
2) 3D models for investment casting, sand casting of valve body other parts
3) Zero based costing of level gauges for railways tendering purpose
4) Assistance in procurement, manufacturing activities
5) Creating BOMs and manufacturing drawings
6) Making SOPs, project documentation, cost and estimation sheets etc.

### Drives and Drives

***About The Company:***
A manufacturer of MHE equipment such as scissor lift, goods lift, dock leveler, lifting equipment such spreader beam, lifting beam, automatic coil lifter, c hook etc. and mechanical transmission equipment such as sprockets, chains, gears, conveyors etc. It is a medium scale company with annual turnover of 15 Cr (approx.) with 30 plus direct employees

***Roles & Responsibilities:***
1) Design and optimization of hydraulic equipment such as scissor lift, goods lift, dock leveller
2) Designing of hydraulic circuits, hydraulic power packs, hydraulic cylinders for various applications
3) Designing of mechanical transmission equipment such as sprockets, conveyor chains, gears wheels etc.
4) Preparation of detailed drawings using solidworks and AutoCAD, BOM preparation
5) Manual CNC programming on CNC lathe
6) Making Manufacturing Process Plans (MPPs), Quality Assurance Plans (QAPs), project scheduling sheets, etc.
7) Handling team of 3 engineers
8) Procurement of raw materials, standard bought-outs etc.
9) Work outsourcing and vendor management

## Job Role & Responsibilities

### Drawing, Drafting and CAD

- Drawing checking
- ***3D modelling*** of parts and assemblies and 2D drafting in CAD software
- Preparation of manufacturing drawings with ***dimensional tolerances, GD & T, surface roughness symbols, welding symbols*** as per the IS and international standards
- Preparation of ***GA drawings, sub-assemblies & main assembly drawings***
- Preparation of Bill of Materials ***(BOMs)***
- Drawing Revision Control, ***ECR, ECN, NCR***
- ***Preparation of 2D & 3D models*** for CNC, VMC machining, casting, forging, profile cutting

### Design and Engineering

- New product development ***(NPD) and re-designing or re-developing*** existing designs
- ***VA/VE, DFA, DFM, DFMEA***
- Performing ***design calculations*** for force analysis, stress calculations etc.
- ***Selection of Materials*** mainly grades of steel and also cast iron, brass, rubber, nylon, UHMWP and other non-metals
- Selection of ***heat treatment processes*** such as hardening, carburising, annealing etc.
- Fundamental design of standard parts such as ***gears, pulleys, sprockets, shaft*** etc.
- Calculation & selection of standard bought outs such as ***bearings, fasteners, gear-box, motor*** etc.
- Usage of ***standards & codes and catalogues & data sheets*** available for raw materials, raw material sections, components, equipment, drawings etc.

### Material Selection For

- ***Structural Steels:*** IS 2062 (E250, E350, E450)
- ***Carbon Steels:*** C30, 45C8 (EN8), 55C8 (EN9)
- ***Low Alloy Steels:*** EN19, EN24
- ***Case Hardening Steels:*** EN36, 16MnCr5, 20MCr5, 18CrNiMo7-6
- ***Stainless Steels:*** SS304, SS303, SS316, SS410
- ***Iron:*** Cast Iron, SG Iron
- ***Brass:*** HTB, IS 319 (Grade 1)
- ***Rubber:*** Neoprene, Nitrile
- ***Plastic:*** Nylon, Delrin, PU, PTFE

### Exposure to following Manufacturing Processes

- ***Forming:*** Casting, Forging, Moulding, Rolling
- ***Machining:*** Turning, Milling, CNC-VMC etc.
- ***Fabrication:*** Welding, Sheet Metal etc.

### Exposure to following Heat Treatment Processes

- Annealing
- Normalizing
- Quenching
- Tempering
- Hardening
- Case-Carburising
- Nitriding

### Standard Parts Selection

- Raw Material Section
- Fasteners
- Bearings
- Belts
- Ropes
- Transmission Chains
- Couplings
- Seals
- Piping Parts & Fittings
- Motors
- Gearboxes
- Batteries

### Standard Parts Design

- Shafts
- Gears
- Racks
- Pulleys
- Sprockets
- Rope Drums
- Wheels
- Springs
- Keys
- Power Screws
- Levers
- Hook

### Standard Joints

- Bolted Joints
- Welded Joints
- Riveted Joints

### DECLARATION

I Akshay Ramesh More hereby declare that all the information given above by me is true to the best of my knowledge and belief.

Date: (Akshay Ramesh More)

Place: Yours Faithful