

RAVI SINHA
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Education:

Bachelor of Engineering (Mechanical) – In June 2000 from Mumbai University.

MBA (Marketing) – In Dec 2006 – From IGNOU

PROFESSIONAL HIGHLIGHTS

24 Years of experience in Machine Design and Project Management for Design services, Special Purpose machine, Robotics based Automation.

Designed & Development done as per Customer requirement from concept level to trial and also done re-engineering of existing product for the respective organization.

Designed and Developed machines in the field of SPM's and Assembly automation like Indexing table, Conveyor belts etc. involving Calculation and selection of Motors, Gear box, Bearings and clutch etc.

Consumer durables like Beverage vending machine, an Electro-mechanical project involving Sheet metal Components and plastic components and Integration with Electronics components and Harnessing.

Structural design for Heavy automotive industries like tankers and trailers body and chassis designs, Steel ducts for Preheating and cooling as per P&ID, Hydraulic and Pneumatic operated machines etc.

Knowledge and exposer in utilizing the Software tools of design such as Auto-Cad 2008, Inventor 9, Solid works. Exposer in SAP R/3 (PP) in focus towards demand management, material requirement planning & discrete manufacturing

PROFESSIONAL EXPERIENCE:

1. Working as Design Consultant. Oct 2024 till Date.

Company name : BGR NEO (oct 2024 till dec 2024) and Freelancing till date

Designed Special purpose Machine for Assembly line automation for Auto screwing and charging station Project, Pick and place of 500kg load, Rope driven Trolley for tending the 2 tons job in painting booth, Pressing and gluing station with Rotary table, Robotic arm Integration design for Pick and place 100kg load, EOAT- Gripper design, Belt conveyor system.

Designed, Manufactured and Installed Roof Rig and Handrails for facade access system in Mumbai. Project involved Roof rig stability calculation, counterweight load calculation, frame analysis, layout drawing approval, Project execution and timely handover as per schedule.

Designed Frame for Glass lifting unit, Eyebolts for Spider man cleaning.

2. Expert Global Solution Pvt. Ltd, Pune. Since Sep 2018

Worked as Associate Project Manager.

SPM design for Paper machines for global client and handling team of 10+mechanical engineers through Project leader and Team leader. The work nature also involves Customer interaction, Delivery of projects and review meeting. Visited Germany for Business and training.

3. ODILON Design & Manufacture Pvt. Ltd., Mumbai: Since April 2013 till Sep 2018.

Worked as Mechanical Design Manager to design machines and Product as per customer requirement & detailing.

Designed: Spiderman- Building maintenance unit, Fire evacuation Cradle, Water fed system for façade cleaning, etc.

4. With ORYX Metal Industries, Oman (Middle East). A manufacturing unit of Semi trailers & tankers (Commercial Automobile).March 2012 till March 2013

Worked as Design Engineer.

Designed and supervised Fabrication of Semi-Trailer Tipper, Tankers, Rigid bodies for Garbage compactor & flat bed trailers

Project Involved Structural design analysis, Roll over stability of the automobile, chassis design, Design calculation of axle brake, Hydraulic pump to PTO & Hydraulic cylinder . Tanker Design as per ADR.Design using Solid works, Cosmos & AutoCAD.

Steel duct Bill of material for Production from drawings as received for Jindal shadeed, Oman from Danieli and L&T

5. With Ion Exchange (I) Ltd, Mumbai - July 09 till Mar 2012

Worked as Deputy Manager-Product Development

Responsible for Product Development with respect to the marketing Input, Competitive analysis & customer requirement

New Product for water Purification (Electromechanical Project) with advance USP, Prototype making, Verification, Field testing of the machine, Water Purifier Body design.

Co-ordination with Marketing, Service, R&D & manufacturing to Build up New input & modify the older issues. Product Validation with respect to cost reduction, design analysis for optimum solution and adding better aesthetic to the existing products.

6. With Godrej & Boyce, Mumbai A manufacturing unit of Godrej Industries. July'05 till June 09

Worked as Sr. Executive – Design & development

Responsible for design and development of 4-Canister Beverage Vending Machine-an Electro-mechanical Project

Project Involved Sheet metal body design, Food graded plastic components, Gear box, Solenoid valves & specification of motor, heater etc.

Design using Auto desk Inventor, Prototype making, Verification, Field testing of the machine

Interact with the Production manager for technical transfer & Organize Quality review of the products.

7. With BSQ Group, Mumbai - A Manufacturing Company Jun00 - July' 05

Worked as Design & Development Engineer

Responsible for Product development as per Customer's requirement.

Conceptualization & product design, Product Planning of the components for assembly, Testing & trial at customer end.

Designed & developed Special Purpose machine like indexing conveyor belt with motorized punching press, Indexing table (Geneva, Pneumatic), multi station press, tensile tester of 1 tone capacity & travel of 1000mm in the vertical direction i.e. Z-axis table using servo drive.

Member of team to design 500 tons press, Billet heating furnace, Annealing furnace Roller design and Insulation work. For Cupro tubes ltd producing Cupronickel seamless pipes.

Languages Known: English, Hindi, and Marathi

Overseas exposure: Worked in Oman.

Visited **Germany** for Business and training.

(Ravi Sinha)