

## **PRAVEEN ANANT GHADI**

401-Akshay Co-op. Housing Society, Plot No: 48, L.T Road, Gorai-2, Borivali (W), Mumbai- 400091

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### **MANAGER – PRODUCT DESIGN & DEVELOPMENT (R&D)**

*Offering 15+ years of professional experience in Industrial Product Design & Development . Good Knowledge in Product Development cycle including Global Customer know-how , Local & International Market competency, Design Test & Validation ,Process improvement with focus on quality & customer satisfaction. Team management & Project management also are key responsibilities taken by self.*

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### **PROFESSIONAL SUMMARY**

- Product design & development experience in motion solutions, automation, material handling systems.
  - Global customer interactions to understand product requirements and specifications.
  - Provide design solutions to meet cost-effectiveness and on-time deliveries.
  - Validate product designs, identify constraints and provide corrective actions.
  - Sound technical knowledge about design , manufacturing, testing and validation.
  - Lead and collaborative engagement on projects involving cross functional teams.
  - Provide direction and guidance to product design teams to meet timely deliveries.
  - Identify resource requirements and perform workload assignments to meet product design goals.
  - Work with marketing teams to generate VOC for innovation and new product developments for growth.
  - Competent & result oriented professional achieving the production target without compromising on quality.
  - Leading problem solving teams to identify issue and provide solution for the same.
  - Strong background in introducing process controls/improvements to reduce wastages and enhance overall operational efficiency.
  - Focused and hardworking professional equipped with thorough knowledge and technical understanding coupled with an analytic bent of mind and confident to take challenging assignments
  - Good professional background & application knowledge in Aerospace & Defense, Industrial Automation sector.
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### **PROFESSIONAL EXPERIENCE**

#### **PORTESCAP INDIA - ALTRA MOTION (Spin off FORTIVE - DANAHER CORPORATION)**

**May'12 – Till Date**

*Manufacturers of Miniature DC motors ,Gearboxes & Encoder Technology*

#### **Manager – Product Design & Development (R&D)**

- Working on DC motors & Gearboxes in terms of customization as per customer application requirements.
- Selection of materials, bearings & lubricants as per load & life requirements. Tribology analysis.
- Designing the motor & gear box based upon the industry need for markets e.g Medical , Automation , **Aerospace & Defense**, Industrial.
- Process improvements in assembly lines to improve quality & productivity.
- Implementation of Standard work, Kaizen & VA-VE tools to improve cost, quality & productivity.
- Designing motors using fundamentals of Electro-magnetism & commutation technology.
- Gear-Box development using Gear design fundamentals & manufacturing process know-how.
- Benchmark & Develop new products for competitive edge.
- Development of New Platform products in Motors , Gearboxes & Encoder Technologies.
- **DVP&R , DFM & DFA , DFMEA, QFD use during product design & development stage.**
- **Extensive use of Toll-Gate Process for New Product Introduction(NPI).**
- **NPD Process from product enquiry till production & final execution.**
- **Customer Engineering Engagement for in-depth understanding of end application, Test & validation.**
- **Focus on Innovation - Study of new growing ideas & competitor product technology**

- Problem solving using Design of Experiments Tools, Tolerance stack Analysis.
- Delegation of Projects & co-coordinating for execution - Project Management.
- Conducting training sessions on specialized subjects like materials, tribology.
- Development of New Technology projects catering to new markets. Benchmarking of competitors.
- Co-ordination & Engagement with Global Teams from North America , Europe & Asia Pacific.
- Train & develop team to execute projects effectively & efficiently with planned roadmap & strategies resource optimization.
- Conduct development plans & growth strategies for self & team.
- Technology growth & development of database generation through content ,whitepaper & Tradeshow participation.
- TUV Nord Certified Internal Auditor - QMS , EHS & OSHAS ISO 9001, 140001 & 180001.

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#### **HERCULES HOISTS LTD. (BAJAJ GROUP)**

**Dec'07-April'12**

*Manufacturers of Hoists and Cranes (Material Handling Systems). Brand - Indef*

##### **Deputy Manager – Product Design & Development**

- Spearheading efforts across Machine Designing, Modeling and detailing of various mechanical components & machines using Catia V5, Solidworks and AutoCAD. SAP-ERP modules.
- Well exposed to Floor Operated Stacker Cranes, Wire Rope Hoist, Hand Chain Hoist, EOT Cranes, Jib Crane and Gear Box Design.
- Accountable for Automated Storage & Retrieval system plus Drafting & Detailing of Drawings.
- Involved in selection of motors and brakes for material handling systems.
- Taking care of Calculation of weight & costing.
- Operational process reengineering.& research on customer complaints, related to projects
- Proficient in Design & Development of Hoists plus managing Modification of Existing Design plus performing Design & Failure Mode Effective Analysis.
- Coordination with marketing for new product development on customer based requirements also with purchase, sub contract, assembly, Quality control departments.
- Involved in Preparation of Item code on ERP & Preparation of Bill of Materials.
- Proficient in Working on SAP- ERP system.
- Handled a total project on Stacker cranes – right from Design to Erection & Commissioning stages.

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#### **MAXEFF & INENSY PVT LTD**

**Dec'06-Nov'07**

*Designing and manufacturing of "Test rigs for various automobile components like crank case, cylinder head, chain drives, Auto Electrical Components, Auto Switches, Terminal Blocks & Sheet metal Components.*

##### **Design & Development Engineer**

- Spearheaded efforts across Designing and Development of Test Rigs & managed to Carry out various Analysis during testing of the Rigs.
- Well exposed to PLC circuits, Hydraulics & Pneumatics and Designing & Development of Auto electrical switches.
- Involved in Inspection of various moulds as per switch design as well taking care of Development on basis of DFMEA Report.
- Responsible for Implementation of Kaizen, Calculation of weight & costing, Preparation of Bill of Materials & Negotiating with customers.

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#### **CONCEPT SHAPERS & ELECTRONICS PVT LTD**

**Mar'06-Sep'06**

*Manufactures Rugged EMI/EMC systems*

##### **Design & Development Engineer**

##### **Professional Projects**

- Main frame (Rohini), Pinnaca Console , Brahmos - L&T
- Honey comb Filters- Indian Navy- INS Betwa.,INS Beas, INS Taragiri
- 13-slot card cage- Bharat Electronics

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## **EDUCATIONAL DEVELOPMENT**

### **Master Of Design Engineering 2021**

BITS Pilani Institute of Technology

### **Post Graduate Diploma in Business Management (Operations) 2009**

ICFAI University

### **Bachelor Of Mechanical Engineering 2005**

Kavikulguru Institute of Technology and Science, Nagpur University

### **Diploma In Mechanical Engineering 2002**

Parswanath Polytechnic, Thane

### **Senior Secondary 1999**

St. Lawrence high school, Borivali, Mumbai

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#### **Certifications:**

- Accomplished Introductory Course in Information Technology, Mumbai. (Nov 2000)
  - Acquired Master Diploma in Mechanical CADD, CADD Centre, Mumbai. (2005-2006)
  - TUV Nord Certified Internal Auditor - QMS , EHS & OSHAS 9001 , 140001 & 180001.
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#### **Professional Training :-**

- Gearbox Design & Manufacturing Techniques.
  - Noise & Vibration Methods - Analysis.
  - DC Motor Technology.
  - Problem solving & Design of Experiments(DOE) Methodology.
  - FMEA Tools.
  - Collaboration - Towards growth & success.
  - Geometrical Tolerances & Stack up Analysis.
  - Daily Management.
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#### **Computer Skills**

AutoCAD 2D/3D, Pro- E, Ansys, Catia V5, MS Project (PPM), Solid works, ERP/Oracle, KISSsoft for Gear Design. Microsoft Office, FEMM.

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#### **Academic Projects:**

**Title:** Project on Design and manufacturing of Trolley type hydraulic jack.

**Description:** Project is based on the principle of fluid pressure being used to lift the load by means of cylinder & piston arrangement. The piston shaft pushes the ram vertically upwards to lift the load. The maximum load capacity of lifting is 1.5 tons. The design aspect includes the design of ram and various kinematic linkages.

**Title:** Project on Testing of CNG -As a fuel for 4-stroke bike

**Description:** Project is based on testing compressed natural gas (CNG), which is a non- conventional source of energy on single cylinder variable compression 4- stroke engine. The engine was tested at **cr-6, cr-8, cr-10**. Based on the different set of readings the power and efficiency of the engine was calculated & its performance was plotted. Thus, we come to a conclusion that the thermal efficiency is **60-70%** more than petrol and the **CO** emission is **0. 2%** which is by far less than petrol

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**Seminar /Paper Publications:**

Presented a Seminar on Sensotronic braking system (Mercedes Benz)

Published a Paper on - Improvement in Noise & Efficiency of GearBoxes .

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**Industrial Trainings Attended:**

- Acquired Training in Air India Maintenance Section, old airport (Mumbai) for Period of 2 months
  - Involved in Industrial Case Study in DCL Polyesters, Mouda (Nagpur), for Period of 6 months
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**Date Of Birth:** 28th March 1983;

**Language Proficiency:** Marathi, Hindi, English;

**Passport Number:** Z4638770

**Reference:** Available On Request

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