

Ms. NISHA POPAT

Senior Level Professional: 17+ years of Professional experience in Design, Research & Development, Project Management & Senior Leadership (Active promotion and driving for WOMEN LEADERSHIP and DIVERSITY Forums)

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PROFILE SUMMARY

- 17+ years of experience in Senior Project Management, Mechanical Design, New product Development, Research and development and Business Development
- Excellent project management skills including prioritization, scheduling, and documentation.
- Ability to build strong relationships and communicate effectively with internal and external stakeholders.
- Strong grasp of current communication, project tracking, budget management technologies.
- Solid technical understanding and ability to define and refine requirements through a project lifecycle.
- Employs strong analytical and problem-solving skills to manage shifting priorities, demands and timelines.
- Ability to quickly learn, understand and apply new technologies.
- Positive, can-do attitude with the ability to succeed in a fast-paced work environment.
- Capabilities in designing the product to meet customer requirement & translating the design model using various tools.
- Well versed in building & leading the Team, Cross functional Team Management, Communication and Global work/visit exposures with New Customer and Achieve the Organization Business.
- Collaborate and interact cross-functionally with Product Marketing as well as sales, manufacturing, operations, and supply chain to define and deliver new products that satisfy business goals
- Prioritize workload and multi-task, Self-starter, and system oriented, highly flexible and approachable with the ability to work under pressure and meet deadlines.
- Senior Project Leadership, career development and Performance Management of direct reports
- Active Team Member & Team Leader of "Advance Product Quality Planning - APQP" team for Productive improvisation.
- Expertise in facilitating end-to-end product development including requirement analysis, finalising specifications, designing and prototype, planning & testing; studying product specifications and upgrading designs.
- Potential in recommending modifications to minimize realize operational efficiencies for mechanical equipment, control variability, costs & reduce cycle-time.
- Excellence in interacting with key personnel at the clients end and understanding their requirements for ensuring the completion of the project as per the parameters defined by them.
- Active promotion and driving for WOMEN LEADERSHIP and DIVERSITY Forums.

SKILL SET

~ Women Leadership	~ Senior R & D Manager	~ Strategic Leadership
~ Design Engineering	~ New Product Development	~ Sr Project Management
~ Client Relationship Management	~ Business Development	~ APQP & PPAP
~ FMEA (Failure analysis)	~ 7 QC tools, PDCA	~ Testing & Validation
~ Ansys (Simulation), Creo Parametric 5.0, PTC Windchill, Mesys, Pro-Engineer wildfire, Solid Works, AutoCad		

WORK EXPERIENCE (Total 17+ Years)

SR#	Company Name	Role	Total Exp	Duration
1	A.T.E. Enterprises Private LTD, TERASPIN, PUNE [CURRENT] https://global.ategroup.com/	Senior Manager - Research & Development	2.3 Years	Since March 2022 (Current Company)
2	TEXSPIN Bearings Ltd, Ranpur - Gujarat https://www.texspin.com/	Manager Product Design - Research & Development	15.3 Years	Jan 2007 to March 2022

SENIOR LEADERSHIP PROJECT MANAGEMENT ROLE:

- Collaborated with stakeholders to document project scope, deliverables, goals, risks, blockers, success measures, and estimated resources needed.
- Ensured that projects remain in-scope and meet budgetary, scheduling, and quality requirements.
- Created, manages and distributed project communications artifacts like charters, schedules, and budgets.
- Provided project status updates at predetermined time intervals to all stakeholders.
- Communicated routinely to management, customers, project team members, and other stakeholders, actively soliciting and addressing customer and project team feedback.
- Assisted in business development efforts to create project proposals, RFPs, estimates, and schedules.
- Monitored project budgets and staffing requirements.
- Ensured adherence to legally binding requirements.
- Plan, schedule, monitor, and report on activities related to the project, including subcontractor monitoring.
- Plans and leads status review meetings, which may include internal team members, vendors, and customers.
- Responsible for training, managing, and motivating the project team, as well as resolving team conflicts.
- Resolves technical and operational issues as required.
- Active promotion and driving for WOMEN LEADERSHIP and DIVERSITY Forums.
- Lead the team to create a range of 3D models for a number of proposal/production and development systems, products, and components using CAD Improve Department performance through Training.
- Provide technical expertise to the team.
- Manage the design and development team to produce a range of concept design schemes for new products as well as updating existing product designs for a number of automotive customers.
- Motivate and coach the team to operational success.
- Reviewing Product Development Time Plan, DVP, PPAP & APQP Documents.
- Monitor the completion of tasks and ensure good performance and record on appropriate systems.
- Well versed in building & leading the Team, Cross functional Team Management, communication and Global work/visit exposures with Customer & Achieve the organization Business Goals.
- Set department objectives/KPIs and review and assess ongoing performance of direct reports.

TECHNICAL RESPONSIBILITIES:

- Responsible for the management of all Design activities including Request for Quotations (RFQs), Design freeze / release, Design Failure Mode Effect Analysis (DFMEA), Production Part Approval Process (PPAP), Design Verification/Product Validation (DV & PV) testing and Computer-aided engineering (CAE).
- Product Management (Product Time Plan & scheduling)
- Responsible for Designing of Thrust Kingpin Bearing, Deep groove ball bearing, Double Row Deep Groove Ball Bearing, Angular contact ball bearing, four-point contact ball Bearing, wheel Bearing, Detent Pin to meet the customer Requirement.
- Life cycle calculation of Thrust Kingpin Bearing, Ball bearings, Angular Contact Bearing, Taper Roller Bearings, Unitized Taper Roller Bearings.
- Generate DFMEA & Review of TS 16949 audit documents.
- Create initial feasibility studies.
- Review of Manufacturing Drawing.
- Conceptualize new designs and design revisions
- Weight optimization & cost reduction.
- Perform the Analysis & Execution using Ansys Static Structural Module (Simulation) for all the bearing segments like clutch release bearing, Synchronizer Rings, Wheel Bearings, Detent pins, Ball bearings, Angular contact Bearings, 4-point contact bearings etc.
- Dealing with parts suppliers, involving Purchasing where necessary
- Facing customer Audits like Mahindra, Daimler, Ashok Leyland, VECV, Eaton etc. Also Facing IATF certification Audit.
- Communication with customer to make product easy to use for customer.
- Identifying and implement design improvements (functionality, cost, design for manufacture)
- Liaise closely with all departments to fully understand design requirements.
- Respond to Requests for Quotation (RFQs) from the Sales team
- Reporting on achievement of targets and identify any actions required.
- Lead product development projects

KEY RESULT AREAS:

- Product Management (Project Planning & scheduling for new product)
- Managing Design & development of new Teraspin components including bearings & spindles & benchmarking with the competition.
- Managing Patent search & application for all new development.
- Formulating Technical proposals for RFQ & VAVE
- Managing Development & Testing of new Prototypes.
- Formulate BOM in & perform costing, Tooling, and conversion costing
- Leading root cause analysis and identification of corrective/preventive actions for field failures.
- Engineering support in localization of child parts, defining purchase standard for localized parts
- Design Proposal & Drawing Review.
- DFMEA and PFMEA Generating & Review.
- Handling team of 5 including Prototype Development Engineer, Fixture Design Engineer, product Design Engineer & Inspection Engineer & Assistant Engineer.
- Daily management of all R&D contributors & to assign the team the work packages needed.
- To participate and lead all technical topics in cross functional team meetings.
- Generating evaluating & developing new product ideas.

Key Technological Projects Development:

A. Development of high-speed spindle insert

- Design and Calculation for High-Speed Spindle insert.
- Feasibility review with cross functional team based on design rule.
- Formulation of DVP plan for High-speed spindle insert.
- Formulation of Project Detailed Timing Plan.
- Patent searching & application.
- Costing of High-speed spindle insert
- Testing and validation
- Design and Development of Testing spindles for new coarse yarn catcher.

B. Smart yarn catcher

- Managing design & review of new smart yarn catcher for coarse yarn.
- Feasibility review with cross functional team based on design rule.
- Formulation of Design Validation Plan DVP
- Tolerance stack up
- Design and Development of Testing spindles for new coarse yarn catcher.

C. Supplier development for localization projects – Plastic and Insert & fixture components

- Design and Feasibility review with supplier
- Regular supplier visits for timely development of child parts
- Aide in technical support to supplier for understanding the functional aspect of the parts and its criticality.

D. Failure analysis, Inspection Reports.

- FMEA (Failure analysis) with PDCA approach
- Managing Inspection Reports Review for New product development.
- Frequent site visit for trouble shooting at customer plant and field

E. Managing & development of Fixtures for New product.

- Managing Design & development of new fixture for New product.
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Key Technological Projects Handled (Segment Wise):

A. Wheel End Solutions – Wheel Bearing, Thrust Bearing

- Perform design and life calculation of Unitized Wheel Bearing for commercial vehicle, passenger vehicle and farm tractor based on duty cycle
- Perform design calculation of Kingpin shaft, thrust bearing, Knuckle and axle for front wheel
- Perform FEA analysis & Execution of automotive component in Ansys (Simulation)
- Formulation of Design Verification Plan (DVP) for Wheel Bearings
- Managing & Reviewing component process drawings
- Assisting Testing and validation of wheel bearing as per DVP

B. Steering Technology – Steering Bearing, Four Point contact Ball Bearing, Detent Pin etc.

- Perform design calculation for steering & four-point contact Ball Bearing.
- Design and development of steering bearing.
- Formulation of Design Verification Plan (DVP) for Steering bearing.

- Assisting of Test rig for Testing and Validation of CSC as per DVP

C. Deep Groove Ball Bearing – For various applications

- Perform design & Life calculation for Deep Groove Ball Bearings.
- Managing & Reviewing component process drawings.

Value Engineering / Value Addition (VE/VA)

- **Effectuating cost saving** initiatives by introducing advance product, process technology and substituting process, use of alternate material and optimizing drawing specification.
- Involved in Various VAVE for KINGPIN(Thrust)bearings & Wheel bearings & Wheel Hub Units & successfully implemented the same, giving Cost reduction to Customer simultaneously giving profit benefits to the company.

ACHIEVEMENTS: -

- Received Instant Recognition award in Dec 2022 & Certificate of Appreciation for outstanding contribution in developing sample of New High-Speed Spindle HFS 682 & HFS 562.
- Successfully design & develop Different types of bearings.
- Successfully done cost saving activities in Kingpin Bearing – Convert steel cage into Polyamide cage.
- Successfully done New Technology for kingpin with zero axial play.
- **Certified Internal Quality Auditor IATF-16949:2016 from TUV SUD India Pvt Ltd**
- **Certified FMEA Based on AIAG VDA FMEA 1ST Edition June 2019 by TUV SUD.**
- **Successfully participated in VDA 6.3: 2016 (process Audit) from S CUBE ANNOTECH.**

PROFESSIONAL QUALIFICATION:

- **Master of Business Administration** from **Gujarat Technological University** (Shree Samanvay Institute of Management & Business Administration, Botad) in July 2023 with **7.78 CPI.& 8.14 SPI.**
- **Graduation** in Mechanical Engineering (**A.M.IE**) from **The Institution of Engineers (INDIA)** Kolkata, **Completed External in March 2020** with **6.33 GPA & 6.67 CGPA.**
- **PDCA** from GOVERNMENT POLYTECHNIC, Ahmadabad Gujarat in 2007 with Pass class.
- **Diploma in Mechanical** Engineering from N.M. Gopani Polytechnic Institute (Kinara - Ranpur) in May 2005 with **59.02%**

PERSONAL DETAILS:

- PERMANENT ADDRESS : 3E-22,Aditya Garden City, Warje, Pune 411058
- DATE OF BIRTH : 22nd Nov 1984
- GENDER : FEMALE
- MARITAL STATUS : Married
- LANGUAGE KNOWN : English, Hindi, Gujarati

DECLARATION:

I hereby declare that all the information furnished here by me is true to the best of my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Thanks for Acceptance...

Yours Faithfully
(Nisha Popat)