

VIKAS PATEL K R

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Professional Profile

Mechanical Engineering professional with more than 10 years experience together in the field of Aerospace, Cutting Tool and Machine Tool domains. Hands on experience in managing cross-functional teams across India in a Cutting Tool organization; exposure to the field of designing (Test and Computation) the aftermarket parts of commercial jet aircraft engines and interiors, which includes flight worthy design, manufacture, and preparation of Parts Manufacturer Approval (PMA) packages, obtaining approval from Federal Aviation Administration (FAA), USA and getting approval from the customer for the assigned projects.

Core Competencies

- Knowledge of Aircraft Components, Manufacturing Processes, Materials (AMS, ASTM) and Coatings
- Conversant with AutoCAD, Pro/E, GD&T per ANSI Y14.5M and FAA Federal Aviation Regulations (FARs)
- Knowledge of Machining Centers, Cutting Tools, Fixtures and Machining Process
- Conversant with ISO 9001:2000 and AS 9100 certification & documentation; ERP and SAP systems
- Ability to work under high pressure environment to meet set targets in the field of Cutting Tools by managing Technical Support, Internal Sales and Application Support departments
- Ability to enable production continuity at client's plants by adhering to the stringent delivery commitments and providing appropriate application support

Occupational Contour

Deputy Manager - Application Support, Technical Support and Internal Sales
KOMET Precision Tools India Pvt. Ltd., Bengaluru, India

Dec 2011 - Present

Team: Leading a team of 6 Technical Support Engineers, 4 Internal Sales executives, 5 Application Engineers and 1 Fixture designer. Total: 16

Roles and Responsibilities:

- Responsible for and heading Technical Support department, Internal Sales management and Application Support department
- Oversee timely submission of competitive techno-commercial proposals
- Manage order booking, invoicing and other internal sales activities
- Manage projects and standard orders execution in accordance with standard procedures
- Manage manpower allotment for project executions at client's sites
- Co-ordinate with internal cross-functional teams to aid project execution
- Co-ordinate with the field sales team for project completion
- Co-ordinate with fixture suppliers and electrical suppliers for project execution
- Ensure project closures with clients across India by visiting them and signing off the final MOM
- Provide performance reports on projects and departmental activities to senior staff and key managers
- Interact with Group companies worldwide for the project requirements

Important activities at KOMET:

- Visited M/s. Jtekt Sona at New Delhi and resolved the long pending issues on electrical interfacing and fixture
- Ensured timely delivery of service tools to M/s. Amtek Auto Ltd, New Delhi to avoid production line stoppage by co-ordinating with Operations department
- Introduced a system to temporarily hold the execution of a particular tool in a particular Work Order

Sr. Project Engineer - New Product Development
HEICO Aerospace Corporation
(JetAvi Engineering Pvt. Ltd., Bengalooru, India)

Nov 2005 - Nov 2011

Roles and Responsibilities:

- Manage project efforts to achieve FAA approval on aircraft components
- Organize and prioritize flow of projects within time schedule
- Research OEM documentation (Illustrated Parts Catalog, Engine Manuals, Service bulletins etc) to understand the function and application of the part and its Next Higher Assembly
- Prepare accurate layout, detailed design and drafting of parts per ANSI Y14.5M using AutoCAD and Pro/E; implement drawing revisions
- Conduct internal reviews and "Project Kickoff Meeting" with the offshore Technical Services team
- Review and approve Quality Inspection Plan (QIP) with Metrology department
- Analyze material evaluation report of the OEM parts prepared at HEICO laboratory
- Perform metrology data analysis and stack-ups to ensure assembly and function of the PMA part
- Prepare design substantiation packages for submission to FAA
- Coordinate revision and control of engineering documents (ECN), including: Engineering Drawings, Quality Assurance Plans, Specifications, and PMA report books
- Identify vendors for products; liaise with them for product development till preproduction
- Support production of assigned hardware until proved at customer's site
- Review and suggest changes to design reports of junior engineers as per the quality policy

Projects undertaken at HEICO Aerospace:

- Design and development of "Seat Assembly - Toilet" for Airbus A330, A340 and A380 aircrafts. This strategic and time-bound project was successfully handled from design upto fit-check at customer's end.
- Design of engine parts namely Nut Option, Borescope Plug, Pivot-Bolt, Seal Ring, Piston Ring, Thermal Relief Plug, Shoulder Bolts, Thermal Blanket, Butterfly S/A, Heat Shield, and Clamp Tube which are eligible to Pratt & Whitney, Airbus, CFMI and Boeing engines

Assistant Manager - Machining Center Division
Bharat Fritz Werner Ltd., Bengalooru, India

Sept 2002 - Oct 2005

Roles and Responsibilities:

- Study of Auto Engine components like Valve Bodies, Crank Case, Cylinder Head, Connecting Rod, Heavy parts of Machining centers like Machine Base, Column, Spindle Housing, and Cross Slides
- Design of Machining Lines, Component Process Layout, Cycle Time Estimation, Conceptual Fixture Layout, Conceptual Tool Layout and Estimation of Project Cost
- Co-ordinate with clients for requirement analysis and to provide technical support
- Co-ordinate between manufacturing, supply chain, assembly, inspection & prove out teams
- Handling the entire project until Installation and Commissioning of the machines
- Discuss / Negotiate with vendors regarding new manufacturing solutions and price
- Manage and train the new engineers according to organizational requirements

Successful project executed:

For M/s. Bharat Heavy Electricals Ltd, Haridwar

Scope: Special Horizontal Machining Center - Tooled up

Roles:

- Thorough understanding of the tender documents and submittal of Technical and Commercial proposal at the national level
- Preparation of Component Layout, Conceptual Fixture Layouts & Tool Layouts, Cycle time and Tooling solution for BHEL products as per stringent requirements

International Assignments

March'08 to June'08: Worked at the head office of HEICO Aerospace Corporation, Hollywood, Florida as a representative of the Project Engineers of JetAvi Engineering Pvt. Ltd. Bangalore. The responsibility included coordinating between the Indian and the US teams in completing design releases.

June 2007: Visited various subsidiaries of HEICO Aerospace Corporation at Hollywood, Atlanta, and Glastonbury to get input and understand the requirements for the projects worked at India.

Achievements

- Represented HEICO Aerospace Corporation in an International Defense Exhibition conducted by the Government Of India (2010)
 - Successful completion of onsite assignments saw the US counterparts offering to visit them for a longer duration (2008)
 - Selected by the President & CEO to be a part of the Senior Management Group (SMG), as a representative of the engineers (2005)
 - Successful handling of a high value national tender for Bharat Heavy Electricals Ltd. resulted in the customer placing repeat order (2005)
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Academic/Technical Credentials

- **Bachelor's degree in Mechanical Engineering from R. V. College of Engineering, Bangalore**
- Trained in "Geometric Dimensioning and Tolerancing" by HEICO Aerospace Corporation
- Trained in "Metallurgy for Non-Metallurgists" by HEICO Aerospace Corporation
- Trained in "FMEA" by Indian Machine Tool Manufacturer's Association
- Certified in "Pro/E Wildfire" by CADD Center
- Certified in 'Metal Cutting Application Engineering Course' by Kennametal University, USA
- Participated in in-house "Managerial Training" conducted by KOMET
- Participated in "Indo-German Intercultural Training" conducted by KOMET