Pramod Bachche,

Mechanical Design Engineer.

E-Mail: pramodjbachche@gmail.com | Contact No: +91-7795452301

PROFILE

- Dynamic and motivated professional with 5+ Years' experience in Mechanical/ Aerospace design engineering
- Expertise in 3D modeling and 2D drafting, design calculations, Failure investigation

KEY SKILLS

- Geometric Dimensioning and Tolerancing (GD & T-ASME Y14.5)
- Tolerance stack-up, Design hand calculations
- DFMEA, DFM ,DFA, DFS
- Zero defect strategy (Six Sigma)
- Requirements and risk management

TOOL EXPERTISE

Geometric Modeling:	UGNX, AutoCAD, Pro-E (Basic)
PLM Software :	Team Center
Requirements Management	DOORS
Statistic analysis	Minitab
FEA	Ansys, Nastran, SC03

PROFESSIONAL EXPERINCE

ROLLS ROYCE INDIA PVT.LTD.

April 2017- Present. Bangalore, Karnataka.

Working as Component Design Engineer in civil Aerospace engine division, Rotatives team.

- Responsible for design of aero engine components for new product development and legacy engines.

GENERAL ELECTRIC (GE) INDIA TECH.CENTER

Sept., 2014 to March 2017. Bangalore, Karnataka.

Worked as Technologist in GE Oil & Gas, industrial gas turbine department in Casing design team.

- Design and FE analysis of industrial gas turbine casings.

Symphony Teleca Corporation (TT Electronics GOC)

July 2013 to Aug., 2014. Bangalore, Karnataka.

Completed Internship Program, followed by full time employment as FE Analyst.

- Stress analysis and design calculations of automobile accelerator pedals and sensors.

EDUCATION

VJTI Mumbai (IN)	M. Tech., (Automobile Engineering)
2011-2013	CPI-7.8/10
TKIET Warananagar (IN)	B.E.,(Mechanical Engineering)
2006-2010	68.48%

TECHNICAL PUBLICATION

- Published International level paper on "*Finite Element Analysis of Shaft of Centrifugal Pump*" in IOSR (International Organization of Scientific Research) Journal.
  http://www.iosrjournals.org/iosr-jmce/pages/v7i3.html

KNOWLDGE & SKILLS

TECHNICAL

- Release of casting, forging and machining drawings for manufacturing.
- Define zero defect strategy (design for six sigma) for all drawing features using statistic analysis (cpk and ppk)
- Component and sub-system level tolerance stack-up calculation.
- Prepare product structure (Engine assembly-3D) and General assembly (GA-2D) for system integration and release BOM for manufacturing and parts procurement.
- Sound knowledge of conventional manufacturing process like casting, forging rolling etc.
- Carry out DFMEA sessions for aero engine and provided key inputs for failure modes, occurrences and detection.
- Actively supported shop and supplier/vendor division for manufacturing deviations resolution by providing innovative dispositions.
- Possesses sound knowledge of GD & T standards as per ASME Y14.5
- Design calculation of bolted (flange behaviors), riveted and welded joints.
- Managed Risk Register for design and production activities to achieve project timelines.
- Enriched simplification culture by developing excel based tool for oil and buffering air passage calculation for gas turbine bearing.
- Controlling physical and functional interface management by Interface definition document.
- Manage component requirement document (CRD) to achieve product requirements.
- Expertise in FEA/CAE analysis with Structural Linear- nonlinear analysis using widely used industry tools like Ansys, Hypermesh and Nastran etc.

KEY COMPETENCIES

- Communication: Deals with internal stakeholders regularly for successful execution of projects by active listening, thoughtful questioning and feedback. Good in handling conflict situations.
- Problem Solving: Resolve issues through brain storming, approaching stakeholders and through review and feedback from technical experts.
- Team Player: Coordinate with cross functional teams in product development and for on time delivery. Share technical knowledge, train team on new process and tools.
- Leadership: Engaging with external engineering and manufacturing suppliers for work delivery, quality management and OTD.