PRADEEP MURTHY

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Email: prad.369@gmail.com

PROFESSIONAL SUMMARY

18+ years of diverse experience in **Product Development & Project Management** in the Mechanical Design & Simulation space. Currently working as **Technical Lead** with **DOVER** India Pvt. Ltd.

Expertise in **managing & mentoring** teams, **effective & clear communication** with excellent **presentation skills** combined with **sound technical knowledge.**

Strong competency in **Leading** & **Executing Life-extension programs** for Gas Turbines, **Testing & Design Validation** of Pumps & Industrial Components, **FEA/CFD/EMAG simulations** for NPD, VAVE & Field Failure Studies, **Design Optimizations** and **Development of Analysis Methodologies**.

International work experience in esteemed organizations (Pratt & Whitney and Rolls-Royce).

B.E in Mechanical Engineering from **Mysore University**, passed out with distinction in 1998.

MAJOR DOMAINS WORKED ON & STANDARDS/DPs USED

Gas Turbines -	GE & Rolls-Royce Design Practices
Pumps -	API & ANSI standards
Refrigeration -	ASHRAE standards
Oil & gas -	API standards

KEY AREAS OF EXPERTISE

Project Management, Team Management, Product Design and Validation	NPD, VAVE, Testing, Design Validation & Failure Studies of Gas Turbines, Automotive & Industrial Components	FEA/CFD Modelling & Simulation, Fatigue & Crack Propagation, Life assessment of wide range of components	Internal Quality Auditing, CMMI implementation, Cost Reduction & Process Improvement Initiatives

ACHIEVEMENTS, PUBLICATIONS & PRESENTATIONS

- Increased the Mean Time Between Maintenance (MTBM) of GE Gas Turbine Combustor components leading to huge savings due to reduced downtime.
- Automated the complete process of Neuberization and LCF life estimation using ANSYS-APDL in GE.
- Presentation on 'HCF life estimation for complete FE model' at GE JFWTC.
- 6 sigma Green Belt certification from GE.
- Won 1st position in Innovation Symposium 2011 in GE.
- Developed methodology for simulation of elastomeric seals and correlation of analysis results with seal failure criteria in DOVER & published a white paper on the same.
- Achieved 42% weight reduction in a Vehicle Lift through design optimization in DOVER.
- Presentation on 'Vibration Level Reduction in a Compressor Rack' at DOVER India Conference.
- Responsible for implementation of various Process Improvement Initiatives in GE & DOVER.
- Individual Excellence Award in DOVER for completion of a high impact & critical project on time.
- Responsible for implementation of Robust Engineering & CMMI in the team.

INTERNATIONAL ASSIGNMENTS

- Assignment on PW307 aero engine development at Pratt and Whitney, Canada, from CYIENT
- Assignment on TRENT 900 aero engine development at Rolls-Royce Plc, Derby, UK from QuEST

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WORK EXPERIENCE

1. **May 2013 till date: Technical Lead at DOVER India Pvt. Ltd.**

- Leading & mentoring a team of 8 engineers executing FEA/CFD/EMAG simulations of a wide range of DOVER products by following relevant Standards, Design Practices & Processes.
- Owned more than 25 simulation projects in 2018, with 100% OTD & FPY, thereby generating a revenue of around 125k USD.
- Understanding & analyzing customer requirements, converting the same into work package for the team & delivering customized engineering solutions.
- Interactions with global cross functional teams/customers to monitor project health.
- Generation of monthly reports for Operational Review with the VP.
- Development of Technology Roadmap & Skill Level mapping of the team.
- Carrying out project mining by conducting webinars for internal customers.
- Responsible for implementation of various Process Improvement Initiatives in DOVER.
- Providing simulation support for various NPD/VAVE programs & Field Failures.
- Carrying out Design Optimizations using advanced FEA techniques.
- Established new analysis methodologies & processes like weld assessment, mechanism. simulation, elastomer seal evaluation, EMAG simulations etc.

2. **August 2010 – March 2013: Lead Engineer at GE Oil & Gas, JFWTC.**

- Ownership of Performance Improvement Program for Fr52E Gas Turbine Combustors
  - Major outcomes of the program
    - Cross fire collar (LINER) weld redesign
    - Fuel Nozzle Cartridge redesign
    - Life extension (MTBM) of all the assemblies
- Carrying out Durability Assessment, Failure Analysis & Design validations.
- Suggesting, validating & implementing design change recommendations.
- Interactions with the Chief Engineer's office and Manufacturing Teams at global locations.
- Cost out & Engineering Labour reduction initiatives through automation.
- Driving Process Improvements to aid robust design methodology.
- Applying 6 sigma techniques in projects.

3. **July 2008 – August 2010: Assistant Consultant at TATA Consultancy Services.**

- Carrying out FEA of 'Interior Systems' & 'Driveline Systems' components of a leading components supplier for automobile OEMs.
- Carrying out FEA of 'Ball Valves' for a leading components supplier for aerospace OEMs.
- Responsible for Project estimation & Project Reviews, Interaction with Cross Functional Teams & Customers, Milestone & metrics reporting.

4. **November 2006 – June 2008: Subject Matter Specialist at QuEST, Rolls-Royce CoE.**

- Worked with 'Propulsion Systems Design', 'Installations' and 'Compression Systems' groups of Rolls-Royce Plc., Derby, UK.
- Carried out static/transient, modal, stiffness and lifting analysis of Rolls-Royce civil aero engine components.
- Worked on FEA and Life estimation of Bearing Housings, LP compressors, Fans and Casings.
- Prepared comprehensive Stress Analysis Reports, Design Definition Issue Statements and present the solutions during the Design Reviews.
- Supported preparation of technical presentations for Customer updates and visits.

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5. **April 2004 – November 2006: Team Leader at InfoTech Enterprises (CYIENT), P&W CoE.**

   - Executing projects, interacting with the customers and preparing project estimations.
   - Carried out FEA of Bearing Housings, Stators, Bearing Scavenge Tubes, Intermediate Casings, Impeller Shrouds and CCOC.
   - Developed Parametric macros for calculating tip clearances.

6. **December 1999 – March 2004: Team Leader at QuEST.**

   - Managed a five-member team that worked on the FEA of aero engine components.
   - Responsibilities included executing projects, preparing project proposals and quotations, scheduling of projects, carrying out appraisals and interfacing between team members and management.
   - Responsible for ISO: 9001-2000 implementation in one of the branch offices.
   - Prepared proposal for a multimillion-dollar project, which involved integrating suppliers from diverse fields.

7. **December 1998 – November 1999: Team Leader at InfoTech Enterprises (CYIENT), P&W CoE.**

   - Worked as a trainee engineer in Assembly & Design departments.
   - Got trained on assembly of spindles & ball screws.
   - Got trained on generation of AutoCAD drawings.

Simulation Softwares:

- ANSYS Mechanical – versions 5.3 to 19
  - APDL & WORKBENCH
- ANSYS CFX 13
- ANSYS Maxwell 16
- SC03 (Rolls-Royce FEA)
- HYPERMESH 10.x
- ABAQUS – version 6.8
  - Implicit and Explicit
- MINITAB

PERSONAL DETAILS

Permanent Address:
#653, 4th 'A' Main Road, Yelahanka New Town, Bangalore – 560064

Languages Known:
English, Hindi and Kannada

References:**
(**Note: Contact details of references will be provided on request)

Location Preference:
Bangalore

Passport Number:
T1019079, valid till 2029