

Prashanth Murthy

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Status: Landed permanent resident

Career Objective:

- To secure a job in the Mechanical or Aerospace industry, to utilize previous project management and business development experience

Highlights of Skills and Qualifications:

- Master of Science in Thermal Power Engineering
- 9 years of experience in the aerospace engineering with 5 years in project management
- Aerodynamic analysis of jet engine components and engine test flow conditioning device
- Defect analysis of aero engine components and repair solutions
- Post processing and validation of test data stress survey for engine certification programs
- FAA regulations, Airworthiness requirements and their substantiation criteria
- Manufacturing processes and design practices used for aero plane components
- In-depth knowledge of CAD, modelling, meshing and analysis tools
- Worked with **Global companies** – SAFRAN Aero Boosters (Belgium), GKN Aerospace (Sweden), GE Oil and Gas (Germany) and HCL Technologies (India)
- **Professional Engineer registration with EngineersPEI licensing body**
- *Member of Project Management Institute (PMI)*
- Good oral and written communication skills, English proficiency (**IELTS Band -7**)
- Strong analytical & interpersonal skill with the ability to multi-task
- Self-starter, motivated and enthusiastic team player

Core Competencies:

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|--------------------------------|---------------------------|------------------------|
| • Aircraft engine components | • Engine certification | • Project management |
| • Manufacturing | • GD & T | • Performance review |
| • Computational fluid dynamics | • Finite element analysis | • Business development |

Technical Proficiency

- | | |
|---|---|
| • Operating and Programming Language: | Windows 10, Linux, C, AWK, Python |
| • Analysis, Modelling and Design tools: | Elsa-COMET, ANSYS – DM, Fluent, IcePack, Hypermesh, Pro-E, UG, CATIA, EDAS, HGL |

Work Experience:

SAFRAN Engineering Services India Pvt. Ltd., Bangalore, India

2009 – 2016

No.1 worldwide for single-aisle commercial jet engines, in partnership with GE

Team Leader

- Accountable for 8000hrs of deliverables per year
- Establish, develop and validate aerodynamic design of aero engine components using CFD simulation - Fluent, Elsa-COMET and open foam software
- Perform technical design reviews and maintain complete documentations for CFD, analysis and engineering methods
- Interpret engineering drawings of aerospace components and validate modifications based on the non-conformed measured values
- Participated in project takeover of Computational Fluid Dynamics (CFD) training and handover process from aerodynamic team of SAFRAN Aero Boosters, Belgium
- Implemented lean-sigma in consultation with customer to reduce effort estimation by 45% and lead time by 25% with suggestion tracker and macro development
- Develop operational specifications, maintenance schedules and manuals for operators
- Perform low cycle fatigue and high cycle fatigue analysis of aero engine components
- Participate in Steering committee meeting, Quality Audit (AS9100) and implementation of Project Management principles (PM+) for ongoing and new projects

- Timesheet approval and validated **data extraction in SAP for month end closure**
- Responsible for hiring needs of the team and controlling direct / indirect cost of project
- **Performance review, incentive rating** of Engineers and communicating development plan
- Coached foreign university student during his internship in SAFRAN
- Awarded High Flyer award – 2014 for exceeding the performance target for the month

HCL Technologies Ltd., Bangalore, India**2007 - 2009**

Ranked 4 among top 10 Information Technology (IT) Companies in India 2015

Member Technical Staff

- Aerodynamic analysis for different non-conformances observed on the vane, hub and shroud surfaces of Turbine Rear frame to analyze the impact of non-conformances on performance
- Benchmark solution methodology using FLUENT software for different non-conformances
- Geometry clean up and hexahedral mesh generation using ICEMCFD 11.0 software
- Excellence award for GP7000 project -2009 for customer satisfaction and second prize in technical paper writing – 2008

Indian Institute of Science, Bangalore, India**2006 - 2007**

World's top 100 universities for engineering and technology – 2015

Project Engineer

- Perform Large Eddy Simulation (LES) of reciprocating engine geometry comprising of producer gas + air mixture for suction, compression and partly expansion
- Compare LES and k- ϵ model results for in-cylinder flow pattern & turbulence intensity
- Time step independent study

Areas of Expertise:**Project Management Expertise:**

- **Team Management:** Manage team of Engineers; this includes execution of tasks as per SOW, scheduling & effort estimation, training new comers, performance review & development plan
- **Customer Interaction:** Participate in status review, status update, resource planning

Product design and analysis expertise:

- Analysis of non-conformities (concessions) as per FAR/CFR certification compliances
- Provide correct sequence and documentation of important activities that are to be followed on DFT (Demand Flow Technology) line of building Vibratory Compactors
- Finite Element Analysis of stator/rotor stage for low pressure compressor of an aero engine
- Thermal analyses of ruggedized laptop (MIL-STD-810F) to optimize heat sink area for cooling

Academic Credentials (Validated and recognized by WES, Canada):

Qualification	University	Institute	Year of Passing
Master of Science in Thermal Power Engineering	National Institute of Technology	NIT, Trichy, India	2007
Bachelor of Engineering in Mechanical Engineering	Visveswaraiah Technological University	Siddaganga Institute of Technology, India	2004
Diploma in Mechanical Engineering	Technical Board	VISL SJ Govt. Polytechnic, India	2000

Training and Workshops attended:

- Training on “**Project Management Professional**” (PMP Certification) - 2016 and taking PMP exam in coming months
- Certification on “Computational Fluid Dynamics” from NPTEL (IIT, India) - 2015
- Advanced GD & T Training – 2015 and ANSYS Workbench Training - 2009
- Workshops on Advanced Computational Fluid Dynamics - 2014 and Unsteady phenomenon in turbomachinery and combustion systems – 2012

Additional Information:**LinkedIn URL:** <https://www.linkedin.com/in/prashanth-p-n-97a81553>**References available upon request**