

Prof. MOHAMMED. JUNAIUDDIN

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EDUCATIONAL CREDENTIALS:

- **M. Tech(Heat Power Engineering)- VNIT , Nagpur – 2009 (8.0 CGPA)**
- **GATE (Mechanical Engineering):- 2007 90 % (Percentile)**
- **B.E.(Mechanical) - Nagpur University, Maharashtra 2007 70%**

TECHNICAL SKILLS:

- I am quite conversant with CFD Software such as (CFD Expert, ICM-CFD, ANSYS-CFD, GRIDZ, and FLOWZ).
- CAD-CAM Software such as (Unigraphics -NX, Catia, and AutoCAD-3D, Master CAM).
- FEA Software such as (ANSYS, Nastran, Hypermesh, and NX-Simulation).
- Experienced with **5-S & 6-Sigma** practices of industrial management & manufacturing.

RESEARCH BASED SKILLS:

Thermodynamics, Heat Transfer, Fluid Mechanics, Energy Conversions. Refrigeration & Air Conditioning, Thermal Power Plant. Gas turbine power plant, Computational Fluid Dynamics, CAD-CAM & CAE, etc.

PROFESSIONAL WORK EXPERIENCES: Total experience: 9 years (JULY-2009 till SEP-2018)

- 1) Post: ASSISTANT PROFESSOR**
(Joined on: 1ST JULY, 2017)
Organization: SHRI VILEPARLE KELAVANI MANSAL'S
INSTITUTE OF TECHNOLOGY (SVKM'S IOT)
Location: Dhule, Maharashtra.
Department: MECHANICAL ENGINEERING DEPARTMENT
- 2) Post: SR. LECTURER CUM MECHANICAL ENGINEER.**
(From: December- 2009 to December, 2015)
Organization: LARSEN & TOUBRO LIMITED (L & T).
Department: Larsen & Toubro Institute of Technology (L&T)
Location: Powai, Mumbai.

Major Job responsibilities were as follows:

- Have the teaching experience of the core mechanical engineering subjects including **Thermal Engineering, Heat Transfer, Fluid Mechanics, Hydraulics & Pneumatics, Strength Of Material, Refrigeration and Air Conditioning, CAD-CAM & CNC, Energy Conversion, Power Engineering, etc.**

- Have been a designated coordinator and guide for the 3rd year and final year students projects (from conceptualization, CAD Design, material selection, fabrication, etc to final assembly and demonstration).
- Organized and conducted certified summer vocational training programs on "**CAD- CAM & CNC**" for the degree and diploma engineers.
- Conducted training programs on Computer Aided Designing & Analysis using UNIGRAPHICS (UGNX) and ANSYS for **L&T, GETS**.
- Coordinated and managed the design, analysis and optimization of various engineering projects and products, from the basic design, CAD Design, CAM manufacturing, design parameters analysis and optimization and product development. Few components includes "Pressure Vessels", "Hydraulic Pumps", "Turbine blades", "Heat exchangers", " Condensers", etc.
- Coordinated & Conducted teachers training programs for MSBTE teachers for various subjects and conducted expert lectures on CAD-CAM at Govt. College for final year mechanical engineering students.
- Worked for updating & revamping the syllabi of ITI (Industrial Training Institute, constituted under Directorate General of Employment & Training (**DGET**), Ministry of Labour & Employment, Union Government of India) for various trades such as welders, fitters, machinist, draftsman mechanics, CNC Operator, etc as per the modern industrial applications and practices in coordination with various L&T and other company's field experts and as per the international standards.
- Coordinated and managed the Skill Development project of **N.S.D.C** (National Skill Development Corporation, Ministry of Skill Development & Entrepreneurship).
- Coordinated the "Industrial Institute Innovation Cell ", where graduate and post graduate engineering students (B.E/B.TECH & M.E/M.TECH) from top institutions and from various disciplines are assigned to various departments of L&T based on their skills and potentials.
- These students perform their industry based final year projects under the supervision of departments field experts.
- Have been a member of **L&T core committee** of **CAD-FEST** (an annual CAD modeling and Analysis competition) held amongst the L&T employees all over the world.

- Organized and coordinated the **INTEGREAT** (an annual state level project exhibition & paper presentation competition) held at L&T.
- Have been a part of some research projects carried out by L&T R&D employees.
- Organized the National Conference and various short term training programs.
- Worked as a sports incharge of the institute for consecutive 3 years.
- Worked as **INCHARGE** for CAD/CAM lab, CNC lab, Power Engineering lab & SOM lab.
- Attended Certified training Programme conducted by **NITTR-Bhopal** on “**Effective teaching methods and industry integration**” and “**NBA Accreditation process and its importance**”.
- Worked as an Assessor, Moderator and question paper setter for final examination papers. Also worked as a member of External Vigilance team and controller of Examinations.

3) Post : CFD ENGINEER (July 2008 – Dec 2009)

Organization: Zeus Numerix Pvt Ltd:

Department: Design & Analysis Department

Location Pune

Some of the projects were completed are as follows:

- **“CFD simulation of RADAR Cross Section of a Generic Missile”.**
We had generated 4.25 billion points mesh of generic missile having a file size of 96 GB. This multi-block structured grid model was simulated by high performance parallel computing of PARAM Yuva Super Computer Lab of CDAC, Pune.
- **“Design & Analysis of cross flow & counter flow heat exchanger”.**
The fluid flow and heat transfer analysis of various types of heat exchangers was carried out. As per the required output fluid parameters, the values of input fluid properties were set, the energy transformation were maximized and the shape of the heat exchanger was finalized
- **“Stress Analysis of Welded Joints of Pressure Vessels”.**
I had designed various types of welded joints to the pressure vessels by doing the stress analysis using Ansys Software and other customized softwares.
- **“Designed and analysis of various types of hydraulic pumps”.**
I had designed various types of hydraulic pumps by using different analysis softwares such as ANSYS, NX, and other customized softwares. This analysis includes the internal & external gear pumps, vane pumps, bent axis axial pumps.

4) Post: ASSISTANT PROFESSOR

(From: May, 2016 to June, 2017)

**Organization: INDIAN MARITIME UNIVERSITY (IMU),
(GOVERNMENT OF INDIA, MINISTRY OF SHIPPING).**

Department: MECHANICAL ENGINEERING DEPARTMENT

Location: HAYBUNDER, Mumbai, Maharashtra.

Major Job responsibilities includes:

- Subject expert of applied thermodynamics, applied heat transfer, I.C. Engines for the courses of B.Tech (Marine Engineering).
- Student's projects guide and event coordinator.

M.TECH PROJECT:

The project titled *"CFD analysis of vortex shedding from cylindrical surfaces"* was my project during the final year of M.Tech. This project was allotted & guided by Dr. Gopal Shevare (Bachelor's, Master and Ph.D. degrees in Aerospace Engineering from IIT Bombay) at Zeus Numerix Pvt Ltd Pune. Various energy transformations & transportation mechanism were captured and a converged solution of mass, momentum and energy equations were obtained by using various CFD & CAD softwares.

Prof.Mohammad. Juneduddin G.Mohiuddin
(DEPARTMENT OF MECHANICAL ENGINEERING),
(SVKM'S INSTITUTE OF TECHNOLOGY, DHULE)