

# Farooqi

## MECHANICAL / HVAC ENGINEER



Mechanical Engineering Degree from France  
3+ years of Professional & Academic experience  
Specialised in HVAC, Heat Transfer, Thermodynamics & Fluid Mechanics

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### ➤ Work Experience :

- 1. HVAC Engineer, G Techs, India** 01/09/2022 – 31/12/2023
  - Utilized AutoCAD to create detailed drawings and layouts for mechanical systems in building designs.
  - Conducted cooling load calculations using the Hourly Analysis Program (HAP) for HVAC system design.
  - Conducted quality assurance checks and reviews of designs to ensure accuracy and completeness.
  - Collaborated with architects and structural engineers to integrate mechanical systems seamlessly into building designs.
- 2. Assistant Professor, Dept of Mechanical Engineering, Aligarh Muslim University, India** 25/03/2021 – 28/08/2022
- 3. Research Intern – Laboratoire de Recherche en Hydrodynamique, Énergie Et Environnement Atmosphérique Ecole Centrale de Nantes, France** 04/2020 – 08/2020

### ➤ Education

<b>MS – Energetics &amp; Propulsion</b> Thesis: Diesel Combustion Modelling at a low air-fuel ratio	1 <sup>st</sup> Div	Ecole Centrale de Nantes (ECN) <b>Nantes, France</b>	2018-2020
<b>Bachelor of Technology - Mechanical Engineering</b> Final Year Project: Experimental & Numerical Analysis of Air Intake System of Formula Student Car	1 <sup>st</sup> Div	Aligarh Muslim University (AMU) <b>Aligarh, India</b>	2012-2016

### ➤ Formula Student (FS) Car Projects: (3)

- 1. Formula Hybrid Powertrain – Control Unit, Ecole Centrale de Nantes, France (2 months)** 2020
- 2. Design, Development and Fabrication of Air intake system of FS Car for FSUK competition at Silverstone, UK (1-year)** 2016
- 3. Formula Design Challenge Coimbatore, India (6 months)** 2015

### ➤ Journal Papers Published: (2)

- “Quantifying hemodynamics within an aneurysm exposed to prolonged exercise levels.” Computer Methods and Programs in Biomedicine 184 (2020): 105124.
- “Design and CFD analysis of baffles of fuel tanker trucks for normal and grade highway conditions”. International Journal of Forensic Engineering and Management (2019): 1(1), 76-89.

### ➤ Certification: (5)

- Udemy course on “HVAC Duct Design Using Software”. 06/02/2024
- Virtual Lab using Scilab Xcos software on “Heat & Mass transfer using Model-Based Design” by Decibels Lab 20/10/2023
- 5-week course on “Applied Computational Fluid Dynamics” offered by Siemens and authorized by Coursera. 29/5/2023
- 4-week MOOC on “Tomorrow’s Mobility – Sustainable Technologies for the Automotive sector”, France. 15/12/2020
- 1-week EV workshop on “Advances in Automobile Engineering & Electric, Hybrid and Plug-in Hybrid EVs”, AMU. 2/3/2016
- 3-Day Training by Prigma “Vehicle Overhauling, Component Familiarity of Maruti ZEN 998cc & Adva Tech” at AMU. 2/2/2014
- 2-Day Workshop by Radiance, IIT Bombay, held at AMU: “Automobile Mechanics & IC Engine Design”. 9/2/2014

### ➤ Technical Skills: (12)

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|----------------|-----------------------------|-----------|------------------|
| • ANSYS Fluent | • Matlab & Simulink         | • AutoCAD | • Microsoft Word |
| • GT Suite     | • C++ (limited proficiency) | • HAP     | • PowerPoint     |
| • Tecplot 360  | • Python                    | • Latex   | • Excel          |

### ➤ Linguistic Skills

- English – Fluent
- Urdu – Mother Tongue
- French – Elementary Proficiency

