

SHASHANK HEGDE

Coventry, United Kingdom
[linkedin.com/in/shashank-hegde27](https://www.linkedin.com/in/shashank-hegde27)

shashankhegde1998@gmail.com
+44 07514436232

PERSONAL STATEMENT

A motivated Computational Fluid Dynamics engineer passionate about solving real world engineering challenges, with a focus on software and simulations. I bring expertise in numerical modeling, turbulence simulations, and research, aiming to drive sustainable energy solutions through innovative engineering practices.

KEY ACHIEVEMENTS

- Achieved the highest grade in the class (**Branch Topper**) in CFD MTech, MIT Manipal.
- Authored a chapter in the upcoming Elsevier book "**Machine Learning and Deep Learning Architectures for Computational Fluid Dynamics.**" (*under review*)
- Awarded as the best trainee engineer on completion of the \$150 Million construction project for the Vadodara SMART City Project during my tenure in Tata consulting Engineers ltd.
- Managed the structural works for India's first-of-its-kind high-speed bullet train project.

EDUCATION

MSc in Computational Fluid Dynamics, Cranfield University, Cranfield, UK

Sept 2023 – Nov 2024

Individual Thesis Project: "Evaluation of turbulence modelling strategies for predicting wind-wave interaction of atmospheric boundary layer flow based on experimental data"

Minor Thesis Project: "CFD Investigation of various configurations of flat plate fin tube heat exchangers for preheating hydrogen in aerospace application"

Modules: Numerical Solution to Navier-Stokes Equations High-performance computing for CFD, Fundamentals of Fluid Dynamics and Heat Transfer, Numerical Solutions to Partial differential Equations; Turbulence modelling and Simulations. Numerical modeling of compressible flow.

M. Tech in CFD, Manipal Institute of Technology, Manipal, India

Sept 2022 – Nov 2024

Modules: Turbulence Modeling, Finite Element analysis, Multiphase Modeling, Introduction to fluid structure interactions

Bachelors in civil engineering, B.M.S College of Engineering, Bengaluru, India

2016 - 2020

Secured the first-class degree with CGPA of 8.56/10

CAREER HISTORY

Tata Consulting Engineers Ltd, Vadodara

April 2022 - August 2023

As a Senior Engineer at Tata Consulting Engineers Ltd., I gained substantial experience in project management and consultancy, collaborating with multidisciplinary teams to deliver high-profile infrastructure projects.

SOFTWARE SKILLS

- Ansys Fluent - In depth experience using simulations and analysis in academia
- 3DExperience: Computer-Aided Design of various 3D Modelling and surface Modelling
- Fortran Programming for coding the inhouse packages for shockwave problems
- Python programming, mainly focusing on computational coding techniques.
- MATLAB - computational and numerical analysis of fluid dynamic problems
- Microsoft Excel for dealing with the large dataset from DNS,LES simulations

INTERESTS & EXTRACURRICULAR ACTIVITIES

Extracurricular: National Cadet Cop PO Cadet, "A" Certificate Holder

Published various articles in leading Kannada newspaper and participated in various open Mice events across the state of Karnataka, INDIA.

Language: Native Kanada speaker, professionally fluent in English and Hindi

Volunteering: Worked towards documentation and preparing annual report for a NGO during TATA proengage edition 14