Salman Shah

Ph.D (pursuing)
No.8, Kokilam St., Taramani, Chennai- 600042
Contact No.: +91 9946 060 177
E-mail: salman.shamsu@gmail.com
Webpage: salman-iitm.github.io/

PROFESSIONAL SUMMARY

- Experienced professional with a solid foundation in both experimental and theoretical fluid mechanics. Proficient in utilizing advanced analytical and computational methods to analyze complex fluid flow phenomena and validate experimental data. Demonstrated expertise as a researcher, mentor, and model designer within academic and professional settings.

EDUCATION

- **Ph.D - Ocean Engineering**
  India Institute of Technology Madras — 2023 - Present
  Tamil Nadu, India
  CGPA - 9.24

- **M. Tech - Thermal Engineering**
  Cochin University of Science and Technology — 2019 - 2021
  Kerala, India
  CGPA - 9.06

- **B. Tech - Mechanical Engineering**
  A.P.L. Abdul Kalam Technological University — 2015 - 2019
  Kerala, India
  CGPA - 8.78

EXPERIENCE

- **Assistant Professor - Dept. of Mechanical Engg.**
  Sree Narayana Gurukulam College of Engineering, Ernakulam, Kerala — 2021 - 2023
  Courses instructed: Mechanics of Fluids, Fluid Mechanics and Hydraulic Machines lab, Thermodynamics, etc.
  Add-on courses mentored - Ansys FLUENT and Autodesk Inventor
  Additional Responsibilities - Asst. Program officer - NSS UNIT 569, Head of Nature Club, Staff advisor

- **CFD Expert, Designer and Mentor**
  KrewX Edtech LLP, Part time — 2020 - 2022
  Key responsibilities: Design engineering solutions, Simulation and post processing, Mentoring
  Domain: Fluid-Structure interaction, Thermal analysis

TECHNICAL SKILLS

- **Experience with numerical method, data analysis, interpretation and documentation**
  BEM, MATLAB, LaTeX
- **Proficient in conducting physical model tests**
  Wave Flume, Wave basin tests on fixed/floating structures
- **Proficient with tool based analysis**
  Ansys-AQWA, Fluent, Orcaflex
- **Skilled in delivering research presentations with clarity, visual impact, and audience engagement**

PUBLICATIONS

- **Published abstract: "Effect of Spatial Distribution of Sinker Arrays on Volume Deformation in Offshore Aquaculture cages". Volume of abstracts, WOSC, NIOT 2024**
- **A Numerical Investigation on Flow Characteristics of Jets Emerging from a Multi-Lobed Nozzle with Pointed Corrugations. International Journal of Applied Engineering Research ISSN 0973-4562 Volume 18, Number 1 (2023) pp. 17-20.**

ACADEMIC PROJECTS

- **Effect of Spatial Distribution of Sinker Arrays on Volume Deformation in Offshore Aquaculture Cages**
- **Determination of Operational Limit for a Conduction Cooled 6U Versa Module Eurocard**
- **Smart Carro: A motorised wheel barrow**

COMPLEMENTARY PROFESSIONAL INVOLVEMENT

- **Internship on AC systems-functions Automotive Battery service, BOSCH**
- **Internship in Foundry unit of Steel Industries Kerala Limited, Palakkad**
- **Workshop on Vibration measurement and analysis, Industry Institute Interaction Cell, SOE, CUSAT**
- **Attended FDP,s on "Outcome Based Education " and "Nanotechnology in engineering for a Sustainable future"**

ACHIEVEMENTS AND AWARDS

- **Presented an article in World Ocean Science Congress, 2014**
- **Presented a Paper in International Conference on Machine Intelligence in Research and Development-accepted for publication**
- **Secured 2nd Rank From Cochin University of Science and Technology in Masters- Thermal Engineering**
- **Successfully completed Masters project at NPOL, Kochi**
- **Project SMART CARRO bagged first runner up in Mechanical Project Expo Organised by Christ College Irinjalakkuda**
- **Branchwise College Topper, Mechanical Engineering**
- **Got selected to DISHA, a unit under National Service Scheme for public services**
- **Bagged best outgoing student award- High School and Higher secondary school**