Daud Hasan

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Overview

Mechanical Engineering graduate with a strong academic foundation in thermofluids and a focused research background in Computational Fluid Dynamics (CFD). Research experience has led to the publication of two Q1 journal papers in internationally recognized journals, reflecting advanced technical expertise, analytical skills, and proficiency in scientific communication. Dedicated to fostering academic excellence through teaching and mentoring, with a commitment to engaging students in critical thinking, problem-solving, and research-driven learning.

Education

- ***M.Sc. in Mechanical Engineering****; (admitted)* *Jan 2025 – Present*
  Chittagong University of Engineering and Technology (CUET)
  Relevant Courses: Advanced Heat Transfer, Turbulence, Fluid and Gas Dynamics

- ***B.Sc. in Mechanical Engineering****; CGPA (3.401/4.00)* *Jan 2019 – Nov 2024*
  Hajee Mohammad Danesh Science and Technology University
  Relevant Courses: Heat Transfer, Fluid Mechanics, Engineering Mechanics, Renewable Energy, Automobile Engineering, Production Process, Machine Design

Publications

1. **Hasan, D.**, Polash, A. H., Faisal, H., Rais, A. I., and Mahmud, M. J. (2024). "Impact of magnetic field on conjugate mixed convection heat transfer in a lid-driven triangular enclosure with an inclined wavy wall and internal heat generation." *International Journal of Heat and Fluid Flow*, Volume 110, Article 109609. DOI: https://doi.org/10.1016/j.ijheatfluidflow.2024.109609.
2. Polash, A. H., Faisal, H., **Hasan, D.**, Hera, M.A.R., Rais, A. I., and Mahmud, M. J. (2025). "Magnetohydrodynamic (MHD) effects on conjugate mixed convection in a triangular enclosure with swirling reactive fluid: A computational approach." *Annals of Nuclear Energy, Volume 223, 2025, 111686, ISSN 0306-4549.* DOI: https://doi.org/10.1016/j.anucene.2025.111686.

Skills Summery

CAD tools: SOLIDWORKS

CAE Tools: ANSYS, COMSOL Multiphysics

Programming: MATLAB, Python

Documentation and Plotting: Microsoft Word, Tecplot

Soft Skills: Writing, Project Management, Time Management

Industrial Training

Training Institute for Chemical Industries (TICI) (Narsingdi, Bangladesh)

- Duration: 4 Weeks (20 May 2023 – 15 Jun 2023)

Leadership Experiences

Course Facilitator at the *Workshop on SOLIDWORKS From Beginner to Advance*

Organizer: IEEE Student Branch, HSTU

- Duration: 1 Week (23 Jan 2023 – 29 Jan 2023)

References

Md. Jisan Mahmud
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