



Brijeshkumar Mandli

Master of Technology | Fluid and Thermal Science
Mechanical Engineering
Indian Institute of Technology Kanpur

brijesh.mandli0930@gmail.com

+91-9484625627

[LinkedIn](#)

Education

Degree	Institute	CGPA/Percentage	Year
M.Tech in Mechanical Engineering	Indian Institute of Technology Kanpur	9.25	2023-Pursuing
B.E in Mechanical Engineering	L. D. College of Engineering Ahmedabad	8.71	2017-2021
Senior Secondary Education	Nakshtra Science School Rajkot	86.92 %	2017
Secondary Education	Amarnath Vidhyamandir Rajkot	84.83 %	2015

Project

- Numerical analysis of hydrothermal performance of friction stir Channels

sep'20-June'21

Mentor: Prof. Sheetal Pandya

- An experimental investigation of the thermo-hydraulic characteristics of integral mini-channel fabricated using friction stir channeling process.
- Compact and lightweight cooling systems are considered essential in the automotive and aerospace industries, while cryogenic industries require higher heat transfer rate.
- Numerical analysis is performed for the water flow through channel at the Reynolds numbers ranging between 500 and 2100. The experimental average Nusselt numbers are found to be in good agreement with the numerically obtained Nusselt numbers. Thus, we could successfully compare the channels' performance using the heat transfer coefficient, pressure drop, Nusselt number and temperature.

Internship and Training

- Shaligram Engineering Co.

Skills Learned: Operations & Management, Quality Control.

Key Course Taken

- Engine Design | Alternative Fuels & Advanced IC Engine | CFD | Numerical Methods

Technical Skills

- **Programming Languages:** Python, C and MATLAB.
- **Software & Designing Tools:** AUTOCAD, StarCCM+, Siemens NX, ANSYS Fluent.

Position of Responsibility

- Senior Executive, UDGHOSH'23

aug'23-oct'23

Skills Learned: MS Excel, Event Management, Team Management, and Arts & Craft.

Academic and Co-Curricular Activities

- GATE 2023 AIR 1339 /63489 (in Top ~2%).

- Mechanical engineering practices in thermal power station

8th-12th June'20

I attended five day webinar series on 'Mechanical engineering practices in thermal power station' organized by Adani Institute of Infrastructure Engineering(AIIE) and Adani Dahanu Thermal Power Station (ADTPS), Dahanu. In which the whole process equipped at Dahanu Power Station from coal to electricity is explained.

- Seminar On Injection Moulding

13th july'19

Insights on different Plastics and design of Die for Injection Moulding. Organized by MSME tool room

- Campaigner at LAKSHYA 2018: KHWAAB – Towards a New Era.

- **Sports:** Chess, Lawn tennis and Running.