KIRAN KUMAR SAHOO

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## PROFILE SUMMARY

Passionate and dedicated mechanical engineer with a Master degree in thermal engineering, seeking an entry-level software development role to apply my analytical skills and technical knowledge. Aiming to leverage my engineering background to develop innovative software solutions and grow within a dynamic technology environment.

## EDUCATION

- M .Tech Grade: 7.88 CGPA, Odisha University of Technology and Research , Bhubaneswar
  **[November 2021— july2023]**
- B .Tech Grade: 7.48 CGPA ,Trident Academy of Technology , Bhubaneswar
  **[June 2017—August2021]**

## TECHNICAL SKILL

- Programming Languages : HTML , CSS
- Database : MongoDB
- IDE : Visual studio
- Solid works
- Ansys workbench
- AutoCAD

## PROJECTS

1. Login page creation:
   - Developed a responsive login page using HTML and CSS to demonstrate user authentication interface design.
   - Key Features :
     - Designed a clean and user-friendly interface.
     - Utilized CSS for styling and layout to enhance the user experience.
     - Ensured accessibility standards were met for a wider range of users.

2. Modern Portfolio:
   - Designed and developed a modern, responsive portfolio website to showcase my projects and skills.
   - **Technologies Used:** HTML, CSS.
   - Key Features:
     - Implemented a clean, minimalist design to highlight content effectively.
     - Integrated smooth scrolling and interactive elements to enhance user experience.
     - Included sections for About Me, Projects, Skills, and Contact, providing a comprehensive overview of my professional profile.
     - Used CSS media query techniques, ensuring a responsive design that adapts to various screen sizes and devices.

## INTERNSHIP

**[February 2021- April2021]**

Internship Trainee at GMR KAMALANGA ENERGY LIMITED , Dhenkanal , Odisha.

Project:

- Detailed Study of Thermal Powerplant and Air Leakages in Air Preheater (APH):
  - **Objective:** Conducted an in-depth analysis of the thermal powerplant operation with a focus on identifying and mitigating air leakages in the Air Preheater (APH).
  - **Role:** Led the research and analysis of air leakage issues within the APH system.
    - Performed onsite inspections and data collection to identify sources of air leakage.
    - Identified significant points of air leakage and their impact on overall plant efficiency and fuel consumption
    - Proposed effective sealing techniques and maintenance practices to mitigate identified leakages.
    - Demonstrated potential for improved efficiency and cost savings through targeted interventions.

## THESIS

**[December 2022- June 2023]**

- Natural Convection Fluid Flow and Heat Transfer from a Partial Open Cavity with Bottom Heat Source.
  - **Objective:** Investigated the natural convection fluid flow and heat transfer phenomena in a partially open cavity with a bottom heat source.
  - **Role:** Conducted research, performed simulations, and analysed results to understand the behaviour of fluid flow and heat transfer.
  - Methodologies Used :
    - Utilized computational fluid dynamics (CFD) software to model and simulate the heat transfer and fluid flow.
    - Analysed the effects of varying parameters such as cavity geometry, heat source intensity, and boundary conditions.
    - Employed heat transfer and fluid flow equations to validate simulation results
    - Identified the patterns of natural convection currents within the cavity.
    - Determined the impact of the bottom heat source on the overall heat transfer efficiency.

## CERTIFICATION

- SolidWorks: Certified training from CTTC, 2022
- Internship trainee : Certified by GMR Group , 2021

## PERSONAL DETAILS

- Date of birth (DOB) : April 7 , 2000
- Languages Known:
  - Odia(native)
  - Hindi(Fluent)
  - English(Intermediate)

## DECLARATION

I certify that the information provided above is true and accurate to the best of my knowledge.