

# SOUVIK SAHA

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I Possess a Bachelor's degree in Mechanical Engineering, providing me with a thorough grasp of mechanical systems, design principles, and analytical methods. Expanding my expertise, I pursued a Master's degree in Material science and Engineering, exploring the intriguing domain of materials, their characteristics, and practical applications. This distinctive combination of mechanical and material sciences equips me with a comprehensive outlook to address intricate challenges and formulate creative solutions.

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## WORK EXPERIENCE

10/2023 TO 12/2023

### CAE ENGINEER IN PRODUCT DEVELOPMENT CENTER/ Simulation Lab

- Designed and executed experiments to evaluate the thermal performance of a Battery Thermal Management System using Nanofluids for EVs, resulting in a 15% improvement in cooling efficiency.
- Assisted a data analysis and generated comprehensive reports to highlight the project's findings and recommendations, contributing to the overall understanding of the impact of nanofluids on EV battery cooling systems.
- Collaborated with a team of engineers to develop a prototype system, leading to successful integration and testing of the BTMS in a real-world EV environment.

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## SKILLS

- Disciplined
- Ansys Workbench
- Ansys Fluent
- Simulation Software Proficiency
- AutoCAD
- MS Excel
- Origin Pro
- Communication
- Adobe Illustrator
- Autodesk Inventor
- MS Presentation
- Data Analysis Excel

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## EDUCATION

- **Post Graduation (M.Tech) in Material Science and Engineering/** Indian Institute of Engineering Science and Technology, Shibpur, Howrah  
GPA: 8.63/10
- **Graduation (B.Tech) in Mechanical Engineering/** Supreme Knowledge Foundation Group of Institutions, Mankundu, Hooghly  
GPA: 7.11/10
- **Class XII in Science/** Amta Pitambar High School, Amta, Howrah  
GPA: 75.6/100
- **Class X/** Amta Pitambar High School, Amta, Howrah  
GPA: 69.5/100

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## PROJECTS

- **Effect of Degree of Salination on the Performance of Vapour Compression Refrigeration System**  
The purpose of this research was to examine how different levels of water salinity affect the thermodynamic properties of a specific Vapour Compression Refrigeration System. To achieve this, Sodium Chloride salt was added in varying amounts to increase the salinity levels for experimental

purposes. Specifically, we focused on measuring the Coefficient of Performance (COP) and refrigerating Effect as indicators of the system's performance under different salinity conditions.

- **Fabrication of Cu-TiB<sub>2</sub>- Fullerene/Lanthanum composites through powder metallurgy route**

TiB<sub>2</sub> is a material that is known for its significant hardness, increased strength, and notable wear resistance, especially at high temperatures. When TiB<sub>2</sub> nanoparticles are added to a Cu-TiB<sub>2</sub> composite, the tensile strength, and hardness of the composite are improved. However, when the amount of TiB<sub>2</sub> is increased, the electric conductivity of the composites decreases. To counteract this reduction in conductivity Fullerene/Lanthanum will be introduced.

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## TRAINING

- **Automobile Basics, Advancement & SAE Car Fabrication & Designing** at TATA MOTORS, JAMSHEDPUR
- **Vocational training** at METAL & STEEL FACTORY, ISHAPORE

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## CERTIFICATIONS

- **Automobile Research (Electrical vehicles)**, Simulation Lab- October 2023 to December 2023
- **Basic and Advances in Mechanical Engineering**, Dept of Mechanical Engineering, SKFGI- May 2018

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## LANGUAGES

English



Bengali



Hindi



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## PASSIONS

- Manufacturing
- Material Science
- Quality Assurance
- Mechanical Design
- Production

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## HOBBIES

- Cricket
- Football
- Listening music