

# Mukul Kumar Sarraf

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Laxmipur Raxaul 845305, Bihar

## Profile

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Motivated and detail-oriented Mechanical Engineering graduate seeking a challenging entry-level position to utilize my strong analytical and problem-solving skills, coupled with a solid academic foundation in mechanical engineering, to contribute to the success of a dynamic organization.

## Education

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Government Engineering College West Champaran B.tech in mechanical engineering CGPA-8.26	2020-2024
K.C.T.C. college Raxaul Intermediate in science Marks-81.6%	2017-2019
Hazarimal High School Raxaul Matriculation Marks-66.2%	2016 - 2017

## Internships

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### MECHANICAL ENGINEERING INTERN

HPCL-BIOFUELS, SAGALI (FEB 2023 -MAR 2023)

- Gained practical experience in the operations and maintenance of machinery used in sugar production, ethanol fermentation, and cogeneration processes.
- Assisted in identifying and implementing improvements to enhance production efficiency and reduce downtime across the plant.
- Supported ongoing engineering projects to improve plant productivity, including machinery upgrades and process modifications.

## Projects

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### Regenerative braking system

- **Objective:** Designed and implemented a regenerative braking system to enhance energy efficiency in electric vehicles.
- **Research & Analysis:** Conducted extensive research on existing regenerative braking technologies and their applications in automotive engineering.
- **System Design:** Developed a detailed design plan using CAD software, focusing on maximizing energy recovery during braking

### **Silent air purifier and humidifier using water as a filter.**

- **Objective:** Developed an innovative air purifier and humidifier that uses water as a natural filter for enhanced air quality.
- **Concept Development:** Designed a dual-function device integrating air purification and humidification, leveraging water filtration technology.
- **Design & Prototyping:** Created a compact and silent operational design, ensuring minimal noise disruption during usage.
- **Filtration Efficiency:** Utilized water as a filter to effectively capture and effectively remove airborne particles, dust, and pollutants.

### **Skills and abilities**

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- Solid understanding of mechanical engineering principles and concepts.
- Proficient in CAD software, SolidWorks.
- Strong analytical and problem-solving skills.
- Excellent communication and teamwork abilities.
- Adaptability and willingness to learn new technologies

### **Languages**

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- Hindi    •English

### **Certifications**

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- Advance machining processes – NPTEL
- Petroleum economics and management – NPTEL
- Solidworks - Desiznideaz

### **Other Certifications**

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- Enhancing financial inclusion with a risk-based approach- ACAMS

### **Personal details**

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Date of birth – 20 March 2000

Nationality – Indian

Religion – Hinduism

Gender – Male

### **Declaration**

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I solemnly declare that all the details given above are accurate, and I bear the responsibility for any variation from them in the future.