# SUMIT KARMAKAR

## PROFILE

Motivated and detail-oriented **Mechanical Engineering student** with a strong foundation in **design, analysis, and manufacturing**. Proficient in **CAD (AutoCAD, Blender)** and **Thermodynamics**, with hands-on experience in **machine design and automotive prototyping**.

## OBJECTIVE

To leverage my skills in **mechanical design** and **sustainable energy systems** to contribute to innovative engineering solutions, with a focus on **design, renewable energy technologies, and industrial automation**.

## ADDRESS

Kutubpur Babupara, English Bazar
Malda - 732101
West Bengal, India

## CONTACT

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karmakarsumit450@gmail.com

LINKS:
YouTube | Facebook

## PERSONAL INFO.

Date of Birth: 08/03/1999
Father's name: Biren Karmkar
Gender: Male
Marital status: Unmarried
Language known: Bengali, Hindi & English

## HOBBIES

Crafting
3D Animation
Travelling

## EXPERIENCE

**Service Manager**
**Bajaj Auto (Chetak Vehicle)** | *April/2024 – June/2025*

- Lead end-to-end service operations for Chetak EVs, ensuring timely maintenance, repairs, and customer satisfaction.
- Manage a team of technicians, optimizing workflows to reduce service turnaround time.
- Implement quality control protocols and resolve escalated service issues.

**Trainee (Diesel Locomotives)**
**NF Railway, Malda Diesel Shed** | 2023

- Gained hands-on experience in under-gear maintenance and engine room operations of diesel locomotives.
- Assisted in troubleshooting and preventive maintenance procedures.

## PROJECTS HANDLED

**Plasma Thruster Prototype** (2024)
**Keywords:** Electric Propulsion, High-Voltage Systems, Plasma Physics, DIY Prototyping

- Designed and fabricated a **functional mini plasma thruster** using a **voltage booster circuit**, custom spark ring, and circular electrodes, powered by a 5V mobile charger.
- Achieved **ionized plasma arc generation** via high-voltage discharge (10-15 kV) in atmospheric air, demonstrating basic thrust principles.
- Optimized electrode geometry and spark gap spacing to maximize plasma stability and minimize energy losses.
- **Tools/Techniques:** High-voltage safety protocols, oscilloscope diagnostics, iterative prototyping

## EDUCATION

**Birbhum Institute of Engineering and Technology**
Passing Year – 2024
Specification: B.Tech, Board: MAKAUT, Department: CME
SGPA: 7.83

**Malda Polytechnic**
Passing Year – 2021
Specification: Diploma, Board: WBSCTE, Department: CE
CGPA: 9.10 Percentage: 78.8%

## SKILLS

| TECHNICAL | NON TECHNICAL |
|---|---|
| AutoCAD & 3D Modeling | Team Management |
| Manufacturing & Assembly | Problem Solving |
| Machine Operator & Maintanance | Self Motivated |
| Blender & Animation | |
| MS Office | |