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
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CONTACT

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karmakarsumit450@gmail.com

LINKS:
YouTube | Facebook

PORTFOLIO

https://sumitkarmakar7.github.io/portfolio/

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	