Pratyansh Sai Shaw └ +91-7535867977 22ev3020@rgipt.ac.in Pratyansh

EDUCATION

Rajiv Gandhi Institute of Petroleum Technology

(An Institute of National Importance along the lines of IITs)

B. Tech in Electrical Engineering (Major : E -Vehicle)

Delhi Public School CBSE Class 12th - Percentage - 89.2%

Delhi Public School CBSE Class 10th - Percentage - 95.2%

EXPERIENCE

Solar Complete Firm

Project Intern

- Gained proficiency in **PVsyst** software for photovoltaic system design and simulation. Mastered importing **ASCII** meteorological data and analyzing solar elevation angles and irradiance patterns. Studied various weather parameters impacting solar performance. Explored diverse solar panel technologies and inverter types.
- Developed skills in optimizing PV system configurations and data-driven decision-making for optimal solar installations.

PROJECTS

Development of DC to DC fast charger for Electric Vehicles

- Guide Dr. Vijay Kumar Singh
- Created comprehensive **simulation models** using MATLAB-Simulink to optimize power conversion efficiency. minimize switching losses, ensure seamless voltage regulation and focusing on advanced **power electronics** topologies and control strategies.
- Currently **transitioning** from simulation to hardware prototyping, implementing wide-bandgap semiconductors (SiC/GaN) and advanced thermal management techniques to achieve faster charging capabilities.

Development of Tactile Sensor Prototype and Electrochromic Device August, 2023 - Dec, 2023

- Guide Dr. Vipin Amoli
- Engineered a flexible triboelectric tactile sensor leveraging **piezoelectric principles**, utilized **fabrication** techniques to create a highly sensitive and durable sensor array with optimized electrode configurations. Implemented charge separation mechanisms to enhance the **triboelectric effect**, resulting in improved voltage generation capabilities.
- Successfully made a flexible triboelectric tactile sensor capable of generating up to 12 volts, demonstrating high sensitivity and potential for energy harvesting in wearable electronics applications.

VOLUNTEER EXPERIENCE

Department of Undergraduate Committee (DUGC), RGIPT	Dec, 2023 - Ongoi
Student Representative	
Training and Placement Cell, RGIPT	August, 2023 - March, 20
Student Member	
IEEE Student Branch, RGIPT Audit and Reporting Coordinator	

TECHNICAL SKILLS

Languages: C, C++, PythonTechnologies/Frameworks: Linux, GitHub, MATLAB, Simulink, AutoCad, Dspace

Achievements

• Qualified for JEE Advanced, 2022

2022 - 2026Amethi. Uttar Pradesh. India

2021 - 2022Meerut, Uttar Pradesh, India

2019 - 2020Meerut, Uttar Pradesh, India

Jan, 2024 – April, 2024

September, 2024 - Ongoing

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[•] Winner in Wall Maze Solver Event held at Urjotsav 2023, RGIPT