SUJOY BHOWMIK

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CAREER OBJECTIVE

To pursue a highly rewarding career, seeking for a post in an eminent organization in challenging and healthy work environment where I can utilize my knowledge and showcase my skills for the good progress of my organization and to gain experience for an exceptional career move ahead.

EDUCATION

M. Tech. – Electrical Engineering — 2023

Kalyani Govt. Engineering College – CGPA 9.08
Maulana Abul Kalam Azad University of Technology (MAKAUT)
Thesis *- Study on Model Predictive Control of Three-phase Voltage Source Inverter with Static Load and Induction Motor Drive*

B. Tech. – Electrical Engineering — 2021

Narula Institute of Technology – DGPA 8.94
Maulana Abul Kalam Azad University of Technology (MAKAUT)
Thesis *- Performance Analysis of Series Load Resonant (SLR) DC-DC Converter*

Higher Secondary (10^{th} +2) — 2017

Barasat Peary Charan Sarkar Govt. High School – 79.80%
West Bengal Council of Higher Secondary Education

Madhyamik (10^{th}) — 2015

Madhyamgram High School – 89.57%
West Bengal Board of Secondary Education

WORK EXPERIENCE

Assistant Professor — October 2023 - Continued

Department of Electrical Engineering
Swami Vivekananda University

- Laboratory-in-Charge of Circuit Theory Laboratory.
- R & D Co-ordinator of Electrical Engineering Department.
- Teacher-in-Charge of B. Tech. (2022-26) batch.
- Member, Departmental Academic Committee (DAC).
- Member, Board of Studies (BoS).

Lecturer — June 2023 – July 2023

Department of Electrical Engineering
JIS School of Polytechnic

- R & D Co-ordinator of Electrical Engineering Department.

HARDWARE SKILLS

- Design, Development and Testing of **Digital Energy Meter**.
- Design, Development and Testing of **1.8 kVA Three-phase Inverter**.
- Design, Development and Testing of **1 kW Three-phase Active Front-End Rectifier**.

Electrical Proficiency

- Circuit Theory
- Power Electronics
- Control System
- Electrical Machine

Software Proficiency

- MATLAB
- PSIM
- Proteus
- Multisim
- Kicad
- MDK-Keil
- Mikro C

Controller Proficiency

- STM32 - CubeMX
- dsPIC

SOFTWARE SKILLS

- Design and testing of **MPPT fed DC-DC Converter**.
- Design and testing of **Z-Source Inverter Topologies**.
- Design and testing of **Cascade H-Bridge and Diode-Clamped Multi Level Inverter**.
- Design and testing of **Series Load Resonant Converter under Different Conditions**.
- Design and testing of **V2G Active Power Transfer Topology**.
- Design and testing of **V/f Control of PMSM Drive**.
- Design and testing of **Three-phase Active Front-End Rectifier**.
- Design and testing of **DC-DC Flyback Topology for Isolated Gate Drive Power Supply**.

AWARDS & ACHIEVEMENTS

- Awarded "**Elite + Silver Medal**" in the course of Advanced Power Electronics and Control organized by Swayam NPTEL.
- Awarded "**Elite**" in the course of Electrical Machine – II organized by Swayam NPTEL.
- Awarded the online (non-credit) "**Specialization on Power Electronics**" from Coursera.
- Received "**JIS INNOVATION AWARD 2023**" in category of Student Publication (AY 2021 - 2022).

REFERENCE

Dr. Sumana Chowdhuri
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University of Calcutta
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Dr. Shib Sankar Saha
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Dr. Debashis Chatterjee
Professor, Department of Electrical Engineering
Jadavpur University
✆ +91 7980324845
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DECLARATION

I hereby declare that the above-mentioned declaration is correct up to best of my knowledge and brief.

DATE: 09.02.2025
PLACE: Kolkata

Sujoy Bhowmik
SUJOY BHOWMIK

Research Publications

- International Journal - 1
- International Conference - 9
- National Conference – 2
- Book Chapter - 4

Research Identity

- Vidwan ID: 440703
- ORCID ID: 0000-0002-7165-0807
- Scopus Author ID: 57611925800
- WoS Researcher ID: JFS-2508-2023
- Google Scholar ID: FSyc_ZUAAAAJ