

Tapash Sutradhar

Electrical Engineering

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Summary

Experienced engineering professional with a strong foundation in design, Maintenance and project management. Demonstrated success in accurate load and cost calculations, ensuring projects adhere to established parameters. Meticulous attention to detail and extensive knowledge in the Electrical Field, including maintenance and project management. Proficient in utilizing computer software and IT tools to enhance productivity and streamline operations.

Education

■ B.Tech in Electrical Engineering

July 2020 - June 2023

Bengal Institute of Technology and Management (BITM)

Bolpur, Santiniketan, West Bengal

GPA: 9.17

■ Diploma in Electrical Engineering

June 2015 - July 2018

Nibedita Polytechnic

West Bengal

GPA: 8.50

■ Mc. William Higher Secondary School

West Bengal Board of Secondary Educations

Alipurduar, West Bengal

Percentage: 52.85%

Technical Skills

- Electrical Machine
- Simulation Software (LTspice, PSPICE)
- Electrical Circuit Design
- Electrical Auditing
- Analog and Digital Electronics
- Computer Network & Security
- Power Systems Analysis
- Embedded Systems and IOT
- Microprocessor and Microcontroller
- Prototyping & Testing
- Microcontroller Embedded Programming: (Arduino, PIC, STM32)
- CAD Software for Schematic Design: (AutoCAD, Altium, Eagle, OrCAD)
- Business and Product Understanding

Work Experience

■ Graduate Engineer Trainee

Operation and Maintenance

West Bengal State Electricity Transmission Company Ltd | West Bengal

July 2024 - Present

Key Responsibilities & Achievements:

- Supported the operation and maintenance of 440/ 220/ 132/ 33/ 11kV substations, ensuring the reliability of power distribution.
- Supported troubleshooting and adhered to safety protocols.
- Contributed to a 5% efficiency increase.
- Helped maintain 100% safety compliance.

■ Executive Engineer

Utility and Maintenance Executive Engineer & Project Team Leader

Synnath Pharma Pvt. Ltd | Visakhpattanam, India

May 2023 - July 2024

Key Responsibilities & Achievements:

- Led a cross-functional Maintenance & Utility team in project design and implementation.
- Managed project timelines, ensuring on-time and within-budget delivery.
- Improved system efficiency through preventive maintenance and RCA, FMEA, CAPA tools.
- Developed SOPs and managed utility systems for optimal performance.
- Increased system performance by 20%.
- Reduced maintenance costs by 15%.
- Led a major utility upgrade, completed 2 months early and 10% under budget.
- Improved team productivity by 30% and reduced safety incidents by 25%.

■ Junior Engineer | Industrial Training

Durgapur Projects Limited (DPL)

Operation and Maintenances of a 550MW power plant unit | 3 Month

Skills

■ Computer Knowledge:

Programming Language (Java Full Stack, MERN Stack, C/C++, HTML/CSS, JS, PHP, JSON)

Operating System: Windows, Linux, Mac OS; **Data Analysis:** Microsoft Power BI, Tableau, Oracle SQL, MySQL

Microsoft Office 365, SharePoint, MS Office, MS Excel, MS PowerPoint, SQL Database, Web Technologies

■ Soft Skills:

Agile Methodology, Project Management, Testing Procedures, Simulation Tools, Teamwork, Quality Assurance & Quality Control, Production Support, Attention to Detail, Communication, Analytical & critical Thinking, Problem-solving, Team Work, Adoptability, Software and Tools

Academic Projects:

■ Switching Power Supply (SMPS) Design

Design a switching-mode power supply (SMPS) to convert AC to DC with high efficiency. This project can focus on optimizing power conversion efficiency and minimizing heat dissipation.

• Skills:

Power electronics design principles.

Circuit simulation and efficiency analysis.

PCB design and heat management techniques.

• Learning:

Hands-on experience with power electronics and SMPS design.

Understanding of energy efficiency and thermal management in power circuits.

■ IoT-based Monitoring System for Semiconductor Equipment

Develop an IoT-based system to monitor various parameters (e.g., temperature, humidity, pressure) of a semiconductor processing machine. The system should include wireless data transmission to a cloud platform for real-time monitoring and alerts.

• Skills:

Circuit design and sensor integration.

Embedded systems programming for wireless modules (e.g., ESP32, Raspberry Pi).

Cloud platform integration (e.g., AWS IoT).

• Learning:

Real-world application of IoT technologies in industrial settings.

Personal details

Name	: Tapash Sutradhar
Marital status	: Single
Gender	: Male
Date of Birth	: May 11th, 1998
Language Known	: English, Bengali, Hindi
Nationality	: Indian

Certifications

- AutoCAD – 2D and 3D
- HVAC Technology
- Data Analysis and Visualization
- PLC/SCADA with Ladder Logic
- EF SET English C2 Proficiency, 75/100
- Information Technology (IT) and Application

Declaration

I hereby declare that all the details furnished above are true to the best of my knowledge. If given an opportunity, I would perform to the best of my abilities and meet my expectations and that of your esteemed Institution.