

Banti Pujhari

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CAREER OBJECTIVE

Electrical Engineering graduate with practical exposure to high-voltage switchyard operations (220/400kV), relay protection, and power system analysis through NTPC & Vedanta Internship. Seeking a core engineering role in power generation, transmission, protection or automation field to contribute to efficient, reliable, and safe electrical infrastructure.

EDUCATION

GITA Autonomous College, Bhubaneswar

B-Tech (ELECTRICAL ENGINEERING) – 8.42/10 2022-2026

SUKANTI ACADEMY, Sonapur

12TH- (SCIENCE)-78.3% 2020-2022

BAPUJI GOVT HIGH SCHOOL, Jharsuguda

10TH- 60.00% 2019-2020

INTERNSHIP

- **National Thermal Power Corporation (NTPC), Talcher** JUNE 2025-JULY 2025
 - Analyzed 220kV/400kV switchyard operations including busbar schemes, CBs, and protection systems.
 - Interpreted single-line diagrams (SLD) to understand power flow and equipment interconnections.
 - Analyzed protection schemes and applied theoretical understanding of condition monitoring techniques such as Dissolved Gas Analysis (DGA), oil degradation and dielectric testing, infrared thermography, partial discharge measurement, and frequency response analysis (FRA) for fault detection.
- **Vedanta Limited (Aluminium & Power), Jharsuguda** MAY 2024-JULY 2024
 - Examined operational performance of a 9×135 MW captive thermal power plant.
 - Monitored generation processes and auxiliary systems to understand real-time plant operations
 - Assessed safety procedures including Lockout/Tagout (LOTO) and PPE compliance

PROJECTS

- **Smart DC Microgrid with MPPT and Intelligent Load Management**
Engineered a DC microgrid system integrating solar PV, battery storage, and MPPT-based control, with intelligent load prioritization to ensure stable power distribution, improved energy utilization, and fault-resilient operation.
- **Design and Analysis of a 1kW Off-Grid Solar PV System with Battery Storage**
Designed a 1kW off-grid solar PV system with battery backup for uninterrupted power supply. Calculated and optimized system parameters including panel sizing, battery capacity, and inverter rating.
- **Arduino-Controlled Single-Axis Solar Tracking System**
Developed a sensor-based solar tracking system using LDR feedback and embedded control logic to dynamically optimize panel orientation, enhancing solar energy harvesting efficiency under varying irradiance conditions.
- **IoT-Based Smart Home Automation System using Arduino and ESP32**
Designed an IoT-based automation system using ESP32 for real-time monitoring and remote load control, improving efficiency and system responsiveness.

SKILLS

Tools: MATLAB Simulink, TIA Portal, Microsoft Word, Excel, PowerPoint

AI Tools: ChatGPT, Claude AI, Copilot AI

Programming Language: Ladder Logic, C, Python Basic

Electrical: Power System Analysis, Control System, Load Flow Analysis, PLC, Electrical Protection Systems, Single Line Diagram, Basic Electrical Safety, PPEs, Transformer, Electronics, Lockout/Tagout Safety

Soft Skill: Teamwork, Active Listening

Language: English, Hindi & Odia

KEY ACHIEVEMENTS

- **Department Topper – Highest CGPA Certificate**

Achieved the highest CGPA in department during my BTech program.

COURSES/ CERTIFICATIONS

- SmartGrid - IIT Roorkee (NPTEL)
- Internet of Things – IIT Bombay
- Power System: Generation, Transmission and Protection - L&T EduTech
- Industrial Power Systems Analysis and Stability - L&T EduTech
- Solar Energy for Engineers, Architects and Code Inspectors - L&T EduTech
- Highest CGPA Certificate in Department
- Siemens S7- 1200 PLC – Udemy
- Learn PLC and HMI with Siemens TIA - COURSERA

HOBBIES

- Traveling and exploring new places

DECLARATION

I do hereby declare that the statements made above are true and correct to the best of my knowledge and belief.

Place: Jharsuguda

Date:

Banti Pujhari
Signature