

MUSTKEEM AHMAD

New Delhi, Delhi

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Profile Summary

I am an experienced Electrical Engineer and Freelance Developer with a strong background in both technical fields. With over three years of experience, I excel in full-stack web development and electrical systems maintenance. I have a proven ability to handle complex projects and deliver innovative solutions. My career spans both full-time positions and freelance work, demonstrating my versatility and commitment to excellence.

Education

University of Petroleum and Energy Studies (UPES), Dehradun

Master of Business Administration (MBA)

2024 – Present

Dehradun, Uttarakhand

Jamia Millia Islamia, New Delhi

Bachelor of Engineering in Electrical Engineering (Percentage: 83.30)

2017 – 2021

New Delhi, Delhi

Experience

Graduate Apprentice Trainee (Electrical Engineering)

GAIL (India) Limited

Feb 2023 – Mar 2024

New Delhi, Delhi, India

- Monitored and maintained cathodic protection and pipe soil protection systems.
- Conducted Close Interval Potential Surveys (CIPS) and performed earth pit readings.
- Assisted in transformer installations and managed tasks related to 4-pole contactors.
- Installed emergency shutdown buttons and managed permits for electrical activities.
- Conducted MTM (Magnetic Tomography Method) assessments and site visits for troubleshooting.
- Monitored SCADA (Supervisory Control and Data Acquisition) systems and designed pipeline diagrams using MS Excel.
- Took TLP readings using CorrReader and multimeter.
- Integrated electrical panels into systems and performed quality control.
- Designed electrical systems (power distribution, control, lighting) and conducted site surveys.
- Ensured compliance with safety standards (IEC, NEC) and collaborated with multidisciplinary teams.
- Performed technical calculations and prepared design documentation.
- Supported installation, testing, commissioning, and troubleshooting of electrical systems.

Electrical Design Engineer - Oil & Gas

Sombansi Enviro Engg Pvt Ltd

Jul 2021 – Feb 2023

Uttar Pradesh, India

- Designed electrical systems (power distribution, control, lighting) for oil and gas applications.
- Conducted site surveys to assess electrical requirements and ensure compliance with safety standards (e.g., IEC, NEC).
- Collaborated with multidisciplinary teams and project managers on various projects.
- Performed technical calculations (load analysis, cable sizing) and equipment selection.
- Prepared design documentation, drawings, and technical specifications.
- Provided support during installation, testing, and commissioning of electrical systems.
- Troubleshoot design issues and optimized electrical systems for efficiency.

Internship Experience

Teachnook

Machine Learning Engineer Intern

Jan 2023 – Apr 2023

Remote

- Gained hands-on experience in implementing machine learning models and data analysis using **Python**.
- Worked on various machine learning algorithms and projects to develop a strong foundation in **Machine Learning** techniques.
- Successfully completed the internship and earned the credential **TNMLINT23-1250**.

Indian Farmers Fertilizer Cooperative Limited

Electrical Engineer Trainee

Jun 2020 – Jul 2020

New Delhi, Delhi, India

- Gained practical experience in electrical systems, including **Grid Systems** and **Transformer** operations.
- Worked on real-world electrical engineering projects, understanding the functioning and maintenance of large-scale electrical infrastructure.
- Successfully completed the trainee program, earning the credential **Voc Trainee / Internee / 2020 / 5990**.

Oil and Natural Gas Corporation Limited (ONGC)

Summer Intern

Jun 2019 – Jul 2019

Ahmedabad, Gujarat, India

- Acquired knowledge and hands-on experience in **oil and gas operations**, including offshore oil and gas processes.
- Gained insights into the **extraction and production techniques** in the oil and gas industry.
- Collaborated with industry professionals to understand **operational safety and efficiency** in offshore environments.

Freelance Experience

NX Codeworks

Freelance Developer

Jan 2021 – Present

Remote, New Delhi, Delhi, India

- At NX Codeworks, I deliver secure, dynamic, and efficient code solutions for a diverse range of clients, including a community of over **30,000 members** on [Telegram](#). Clients provide projects, and upon successful completion, payments are made for the delivered work.
- This side business has enabled me to foster strong client relationships while consistently delivering high-quality work in areas such as web development and bot creation.
- I specialize in **Python, PHP, JavaScript, Node.js, React, HTML**, and **CSS3**, creating responsive web applications and custom bots that meet the highest standards.

Chegg India Pvt. Ltd

Subject Matter Expert (Electrical Engineering)

Apr 2021 – Feb 2023

New Delhi, Delhi

- Provided accurate and detailed solutions to over **1,000** complex questions, specializing in Electrical Engineering concepts.

Sorting Hat Technologies Private Limited (Unacademy)

Subject Matter Expert (Mathematics)

Apr 2020 – Feb 2023

New Delhi, Delhi

- Solved over **20,000** challenging Mathematics questions, consistently delivering clear and well-explained solutions.

Projects

Performance Evolution of Power Electronics Converter for Charging Station | Power Electronics, Semiconductor Technology

- Associated with Faculty of Engineering and Technology, Jamia Millia Islamia, Central University, New Delhi, India.
- Analyzed advancements in semiconductor technology, control algorithms, and thermal management to enhance charging efficiency, reduce energy losses, and increase power density in EV charging stations.

Oil Refinery Automation System | PLC, DCS, HMI

May 2024

- Engineered an automated control system for an oil refinery using Programmable Logic Controllers (PLC) and Distributed Control Systems (DCS) to optimize production efficiency and safety.
- Designed Human-Machine Interface (HMI) for operators to monitor and control refinery processes in real-time, improving response times to critical events.
- Enhanced operational safety by integrating emergency shutdown systems and safety interlocks within the automation framework.

Smart Grid Electrical Distribution System | Smart Grid Technology, IoT, Automation

Sep 2023

- Designed a smart grid electrical distribution system aimed at improving energy efficiency and reliability.
- Integrated IoT sensors for real-time monitoring of electrical parameters and automated load management.
- Implemented demand response strategies to optimize energy consumption during peak hours, reducing operational costs.
- Conducted simulations to assess system performance and made recommendations for enhancements.

Electrical System Design for Industrial Automation | Control Systems, Electrical Design, Safety Standards

Jan 2024

- Designed electrical systems for automated manufacturing processes, including power distribution, control panels, and safety interlocks.
- Utilized CAD software to create detailed design drawings and schematics in compliance with industry standards.
- Conducted risk assessments and ensured that all designs adhered to safety regulations (IEC, NEC).
- Collaborated with project managers and engineers to execute installation and testing phases of the project.

Technical Skills

- **Languages:**
 - JavaScript
 - Java
 - Python
 - PHP
 - **Electrical Engineering:**
 - SCADA Systems
 - Electrical Troubleshooting
 - Circuit Design and Analysis
- Power Systems
 - Transformer Installation and Maintenance
 - Cathodic Protection Systems
 - Control Systems and Automation
 - Electrical Safety and Standards Compliance
 - Pipeline Integrity Management
- Performance Analysis of Electrical Systems
 - Automated Control Systems Design
 - **Other Skills:**
 - Project Management
 - Technical Documentation
 - Team Collaboration
 - Problem-Solving Skills

Certifications

Certified Electrical Safety Compliance Professional (CESCP)

Power System Protection and Control Certification

SCADA Systems Certification

Cathodic Protection Specialist Certification

Control Systems Engineering Certification

Electrical Design Engineer Certification