

KRITI UCHCHHAL MOZUMDER

EEE Graduate | Electrical Maintenance & Electronics | Strong Leadership

@kritiuchchhal@gmail.com

+8801890100677

Sylhet, Bangladesh

/Kriti-All-Projects

Portfolio



ABOUT ME

I'm a graduate in Electrical and Electronic Engineering (EEE) with a strong foundation in power systems, electrical machinery, and instrumentation, along with practical exposure to real-world wiring and industrial setups. My interests bridge both the classical and modern sides of engineering — from circuits and control systems to machine learning, automation, and smart technologies. I'm deeply motivated to apply my technical and analytical skills to solve real industrial challenges while continuing to learn through hands-on projects that merge engineering with innovation.

EDUCATION

B.Sc. in Electrical & Electronics Engineering

Sylhet Engineering College(Affiliated with SUST)

2020 – 2025

Sylhet

- Graduated with CGPA 3.68/4.00

PROJECTS

- Three-Phase Inverter System** (SEC, 2025): Built a variable-frequency inverter using IGBT and Arduino for motor drive applications.
- Real-Time Audio Analyzer** (SEC, 2024): Designed an ESP32-based system to measure sound levels and frequencies with interactive display.
- IoT Biometric Attendance System** (SEC, 2024): Developed a secure wireless logging system using ESP8266 and JM101 fingerprint sensor.
- Smart Light Switch** (SEC, 2024): Created an Arduino-based lighting system with manual and auto brightness control via sensors and TRIAC.
- Motor Control & Testing** (TICI, 2024): Simulated AC/DC motor circuits (DOL, Star-Delta, forward-reverse) and analyzed energy efficiency under load.
- PLC & SCADA Automation** (TICI, 2024): Programmed PLC logic for sequential control and integrated SCADA for real-time monitoring.
- HVAC & Boiler Maintenance** (Factory Training, 2025): Evaluated chillers, air filtration, and dehumidification systems for industrial HVAC setups.

TRAINING & CERTIFICATIONS

Factory Maintenance and Management Course

Conducted by SM. Ashikur Rahman (Deputy Manager, Maintenance)

June 2025 – Sep 2025

Industrial Technology in Electrical Engineering & Instrumentation

Training Institute for Chemical Industries, Narsingdi

Dec 31, 2023 – Jan 18, 2024

A in final evaluation

Single-Phase Electrical Wiring & Installation

Sylhet Engineering College

2022

TECHNICAL SKILLS

Electrical Systems & Safety Power Systems, Transformers & Substation Maintenance Technical Communication
Python Motor Control Circuits & Industrial Drives PLC Programming, SCADA & Industrial Automation
HVAC, Chillers & Steam Systems MATLAB C/C++ Machine Learning, Deep Learning
Computer Vision & Image Processing Internet of Things (IoT) & Smart Grid Applications
Microsoft Office & Documentation Leadership & Team Coordination

ACHIEVEMENTS

- 2nd Runner Up, Line Follower Robot segment, Technoventure 2.0, SEC, 2020
- Participated in robotics competitions at Robo Carnival (2024), Technoxian BD (2024), Technoventure 3.0 (2024), and Ignition Fest (2023)
- Growth Hacking internship with Introduce Pvt Ltd for 3 months, 16 June to 16 September 2020

LEADERSHIP & CAMPUS INVOLVEMENT

- Served as an active member of Sylhet Engineering College Robotics Club

ONLINE COURSES WORKSHOPS

- Control Design Onramp with Simulink – MATLAB Academy, 2024
- 30-Day Webinar on PLC, VFD, HMI – Gobeshona Learning Academy, 2024
- Master Class on Machine Learning – Pantech Prolabs India Pvt Ltd, 2022

LANGUAGES

English (Fluent) Bangla (Native)

REFERENCES

SM. Ashikur Rahman

Deputy Manager (Maintenance), Akij Wellness Ltd, Akij Group

- @ ashikur.ajml@akijjute.com 📞 +880 1750-602636

Dr. Md. Shahid Iqbal

Associate Professor , Dept. Head (EEE) , Sylhet Engineering College

- @ shahidiqbal_05@yahoo.com 📞 +8801916590472