

MOHAMMAD JALAL UDDIN

Electrical Design & Automation Engineer

📞 01768389339 @ mohammadjalaluddin120@gmail.com 📍 Kashimpur, Gazipur
🌐 www.linkedin.com/in/mohammad-jalal-uddin-43914b342



SUMMARY

Recent Electrical and Electronic Engineering graduate from Mymensingh Engineering College with expertise in electrical design, industrial automation, IoT, and solar system design. Skilled in AutoCAD (2D & 3D), substation and SLD design, electrical safety audits, RSC and Nirapon compliance, and utility systems management. Proficient in PLC programming, SCADA, HMI, and fire detection systems. Passionate about applying innovative and sustainable solutions to optimize industrial processes and integrate smart technologies.

EXPERIENCE

Electrical Engineer | Extensive Engineering and Service | Mirpur, Dhaka January 2026 - Present

- Prepared SLD, ELD, LPS drawings, load calculations, BOQ, and technical documents.
- Conducted electrical testing, site inspections, and safety audits (RSC, Nirapon & DIFE).
- Assisted in Electrical Safety, Fire Safety, and LPS projects following BNBC, NFPA, and IEC standards.
- Supported the design, installation, testing, and commissioning of electrical and fire protection systems.

EDUCATION

02/2019 – 12/2024 Mymensingh, Bangladesh	● BSc. in Electrical & Electronic Engineering Mymensingh Engineering College, Faculty of Engineering & Technology, University of Dhaka CGPA 3.12 / 4.00
06/2016 – 06/2018 Gazipur, Bangladesh	● HSC (Science) Rajendrapur Cantonment Public School & College GPA 4.42 / 5.00
01/2014 – 02/2016 Gazipur, Bangladesh	● SSC (Science) M.E.H Arif College GPA 5.00 / 5.00

TRAINING & CERTIFICATIONS

11/2025 – Present Dhaka, Bangladesh	● Training Title: Basic To Professional-Industrial Automation. Institute: NETA-Nur Engineering Technology & Automation. Key Learning Outcomes: Completed hands-on training in PLC programming, HMI & SCADA, IIoT, VFD/Servo/Stepper motor control, PID & process automation, industrial sensors, and all major communication protocols. Gained practical skills in designing, simulating, and troubleshooting complete industrial automation systems. Experienced in ladder logic development, system integration, and real-time monitoring of industrial processes. Familiar with industrial networking (Modbus, Profibus, Ethernet/IP) and control panel design for automation systems..
--	---

06/2025 – 10/2025 Dhaka, Bangladesh	Training Title: Electrical Design Master Course. Institute: Learnoz. Key Learning Outcomes: LPS design & BOQ (BNBC-2020, NFPA-780), AutoCAD electrical drafting (2D/3D), substation & industrial SLD (RSC, Nirapon audit), building electrical design, NFPA-70 (NEC), electrical safety audit, and fire detection system design.
11/2025 – 12/2025 Dhaka, Bangladesh	Training Title: 30 Days Internship on Electrical System Design. Institute: Gobeshona Learning. Key Learning Outcomes: Electrical load calculation, project costing, breaker & transformer sizing, cable sizing, earthing & grounding design, ETAP analysis (short circuit, voltage drop, arc flash, harmonics), AutoCAD electrical drafting, BNBC-based substation & panel design, lighting design (Dialux), SLD development, NEC & LPS compliance, fire alarm and CCTV system design.
09/2025 – 10/2025 Dhaka, Bangladesh	Training Title: Boiler Engineering and Management Course. Institute: FOTEPUR- Future Orientated Training for Empowering People and Upgrading Resource. Key Learning Outcomes: Gained knowledge of industrial boiler operation, steam generation, combustion, water treatment, instrumentation & control, preventive maintenance, safety standards, troubleshooting, and energy-efficient boiler management.
02/2026 – 03/2026 Dhaka, Bangladesh	Training Title: Comprehensive Analysis on Solar PV System Design. Institute: Qlearn. Key Learning Outcomes: Solar cell fundamentals, PV module electrical characteristics, solar string & array design, inverter integration, off-grid/hybrid system concepts, battery sizing, grid-connected solar system design, PVsyst simulation, shading analysis, and loss diagram interpretation.

THESIS

Design, Management and Performance Evaluation of Lithium-Ion Battery for Electric Vehicle Application Using MATLAB Software.

- This study aims to improve EV charging speed, battery design, and discharge time.

Software used: MATLAB, Origin Pro.

TECHNICAL SKILL

AutoCAD Electrical | Dialux Evo | Etap | Revit Electrical | Tia Portal | WPLsoft | Dopsoft | Gxworks2 | CX-Programmer | XG5000 | XP Builder | PVsyst | Microsoft Office

SOFT SKILLS

Leadership | Communication | Team-work | Adaptability | Time Management | Event Management

LANGUAGES

Bengali
Native

● ● ● ● ●

English
Proficient

● ● ● ● ○

HONORS & AWARDS

Robo Race Champion – MEC CSE Carnival, University of Dhaka02/2020

- Optimized motor configuration for improved obstacle handling and robot stability.
- Enhanced control design and remote connectivity for better performance.

EXTRA-CURRICULAR

Member | Alpha Science Lab(07/2019 - Present)

- Developed Arduino-based soccer bots and managed LFR projects.
- Contributed to the electrical design of Bangladesh’s first rocket, *Dhumketu X*.

Executive Member | MEC Film and Photographic Society(02/2019 - 06/2024)

President | Gazipur Students Forum(02/2023 - 06/2024)

Coordinator | MEC Cycling Club(10/2022 - 06/2024)

PERSONAL INFROMATION

Father’s Name: Saroar Jahan

Mother’s Name: Diluara Begum

Date of Birth: 04-11-1999

NID No: 4665241479

Blood Group: B+ve

Present address: Zitraremore, Kashimpur, Gazipur.

REFERENCES

Engr. S.M. Anowarul Haque

Assistant Professor and Head of the department,

Department of EEE, Mymensingh Engineering College.

Mobile No: +880 1816-419622

Email : engrsonet2017@gmail.com.

Engr. Nur Mohammad Likhon

CEO & Sr. Automation Engineer,

Nur Engineering Technology & Automatiom.

Mobile No: +880 1777-069625

Email: engr.nm.likhon.bd@gmail.com.

Abdul Wahed

Lecturer,

Department of EEE, Mymensingh Engineering College.

Mobile No: 01721343362

Email :abwahed@mec.ac.bd