

# MEHEDI HASAN

Sydney, Australia 2213

0404997591 - mehedi225@gmail.com

## PROFESSIONAL SUMMARY

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Electrical and Automation Engineer with 6+ years of hands-on experience in the design, integration, and commissioning of industrial automation and power distribution systems for large-scale facilities, including steel grain silo projects up to 105,000 MT. Proficient across the full control system lifecycle: PLC and SCADA integration, MCCs, VFD configuration, and field instrumentation, supported by robust MV/LV electrical system expertise. A final-year Master of Engineering (Electrical) student at Western Sydney University, bringing a practical, site-proven, and safety-focused methodology aligned with Australian industry standards.

## TECHNICAL SKILLS

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- **Industrial Automation:** PLC programming (Ladder Logic), VFD configuration, HMI and SCADA system design & development.
- **PLC Platforms:** Siemens (S7-300, S7-400, S7-1200), Allen-Bradley (RSLogix 500/5000), Omron, Mitsubishi, and Delta PLC.
- **SCADA & Design Tools:** Siemens WinCC, TIA Portal, FactoryTalk, and AutoCAD.
- **Electrical Systems:** Substation installation & supervision (HT/LT), MCC, transformers, AVR, PFI panels, and distribution systems.
- **Project Support:** Commissioning, site inspections, fault diagnosis, troubleshooting, and technical documentation.
- **Soft Skills:** Team collaboration, attention to detail, proactive learning, and an innovative, safety-focused mindset.

## WORK HISTORY

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03/2022 to 07/2024

### Resident Engineer (Electrical)

JV NOFEAR MEPC –Bangladesh

- Delivered electrical and automation engineering for two 48,000 MT steel rice silo projects, encompassing MV/LV power distribution, PLC/SCADA systems, MCCs, and field instrumentation.
- Supervised installation and commissioning of 11 kV SF<sub>6</sub> switchgear, transformers, HT-AVR, VFDs, MCC panels, and industrial lighting systems, ensuring compliance with electrical safety and project specifications.
- Developed and implemented PLC control logic on Siemens S7-400 PLCs using TIA Portal, including interlocks, sequencing, and fault handling for conveyor, elevator, and grain handling systems.
- Developed and configured WinCC Advanced SCADA screens, tags, and alarms in TIA Portal for real-time monitoring and control of conveyor and material handling systems.
- Coordinated with electrical and automation contractors, conducted site inspections, and prepared technical reports, progress claims, and billing documentation.

09/2019 to 03/2022 **Resident Engineer (Electrical)**

**Gerico France** – Bangladesh

- Delivered electrical and automation engineering support for a 105,000 MT steel rice silo facility as a Power & Automation Consultant.
- Supervised installation and commissioning of industrial electrical systems, ensuring compliance with project specifications, safety requirements, and engineering standards.
- Coordinated with contractors and multidisciplinary stakeholders to support on-time and on-budget project delivery.

06/2018 to 08/2019 **Service Engineer**

**Bangladesh Automation Technologies** – Dhaka, Bangladesh

- Delivered industrial automation services including PLC, VFD, and HMI troubleshooting, configuration, and commissioning support across multiple client sites.
- Conducted structured technical training sessions on industrial automation systems, covering PLCs, VFDs, HMIs, and substation fundamentals for technicians and junior engineers.

## ACHIEVEMENTS

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- Successfully delivered electrical and automation systems for two 48,000 MT steel rice silo facilities, achieving safe commissioning and reliable operation of MV switchgear, MCCs, PLCs, VFDs, and SCADA systems.
- Played a key engineering role in the delivery of a 105,000 MT silo facility, supporting contractor coordination, technical compliance, and electrical and automation scope execution to meet safety, quality, and cost objectives.

## EDUCATION

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**Master of Engineering: Electrical**

**Western Sydney University** - Sydney, NSW

Currently Enrolled | Completed 3rd Semester

**Bachelor of Science: Electrical and Electronic Engineering**

**Bangladesh University**- Bangladesh

Passing year-2017

## LANGUAGES

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English: Full Professional

Bengali: Native/ Bilingual

## REFERENCES

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