

Md Ettaker Siraj

1/3, Darussalam, Mirpur, Dhaka-1216
+8801719668299 | siraj.aiub@gmail.com



PROFILE

- Electrical & Automation Engineer with 9 years of experience working as an Incharge of the maintenance department in a well-renowned Manufacturing Industry. Skilled professional engineer with a solid academic background in electrical & electronic engineering and hands-on experience in project management, Erection, Installation, Commissioning, Maintenance, Automation control system, troubleshooting, and PLC programming. Excellent interpersonal and communication abilities, team supervision and interface effectively with co-workers for effective management.

SKILLS & HIGHLIGHTS

Automaton Control System:

Hardware:

- **PLC:** Siemens (S7-200,300,1200,1500), Mitsubishi, Delta, Fatek
- **HMI:** Siemens, Mitsubishi, Delta, Weinview
- **VFD/Drive:** Siemens (G series, S series, V90 series, Servo drives), Delta, Mitsubishi, Parker, Yaskawa, Danfoss, Lenze, ABB, Schneider (Eurotherm)
- **Robotics:** ABB Robot.
- Basic Instrumentation and Control System

Software:

- **PLC :** Tia Portal, Simatic Manager, Microwin, GX Developer, GX Works, WPLSoft, WinProLadder.
- **Programming Language:** Ladder, STL, FBD, SCL, Basic C programming
- **HMI:** Tia Portal Wincc, Wincc Flexible, GT Designer, DOPSoft, Easy Builder
- **SCADA:** Siemens Wincc, Ignition, NI LabVIEW
- **Drive:** Starter Drive, V-Assistent, Lenze Engineer, iTools, DSELite, SigmaWin+, Delta ASDA-Soft
- **Industrial Networks:** Profinet, Profibus, Modbus, Ethernet TCP/IP and Wireless.
- Autocad, SQL database, MS Office, IT Networking

Electrical and Utility:

- Substation
- Generator
- Air-Compressor
- Chiller
- Boiler
- HVAC
- ETP
- Solar System

Project Coordinated:

- Refrigerator Manufacturing Plant
- Cable Manufacturing Plant
- Refrigerator Compressor Manufacturing Plant.

Achievements:

- Awarded as “Best Incharge of the month” for maintaining the lowest machine breakdown time.
- Awarded for the contribution to 1 Megawatt industrial power-saving project.
- Awarded for leading the Walton Cable Manufacturing Project erection, installation & commissioning work within the timeline.

EXPERIENCE

Walton Hi-Tech Industries PLC.

Deputy Manager (Maintenance-Electrical & Automation)

Kaliakoir, Gazipur
Mar 2016 – Present

- Plan, organize, coordinate and execute all electrical maintenance activities.
- Maintain, troubleshoot and program PLC (Siemens S7-300, S7-1200, S7-1500, Mitsubishi, Delta), HMI and SCADA design and monitoring system, Servo Drives, sensors, VFDs, Sub-station and electrical distribution systems.

- Achieved project management experience by supervising the installation, erection and commissioning of some major manufacturing plants including Refrigerator Plant, Electronic Appliance Manufacturing Plant, Cable Manufacturing Plant, Compressor Manufacturing Plant, Brass Manufacturing Plant and so on.
- Installation, commission and Maintenance of Substation, Generator, LT-HT Panel, PFI, Transformer and electrical switchgear.
- Upgrade, modify and implement automation control system in machines to increase productivity.
- Responsible for supervision of Maintenance Engineers and Technicians in orienting, training, assigning, scheduling and disciplining employees.
- Hands-on Experience in Induction Furnace, Aluminium, PVC and Sheet Extruders, Drawing machines, PVC Compounding Machines, conveyors, Auto coiling & Packaging machines, Construction Machines and so on.
- Executed installation, commissioning and troubleshooting of BMS Controlled HVAC system, Chillers, Compressors, Solar power plant and upgrade systems to reduce power consumption.
- Sourcing innovative methods and technologies to predict and mitigate critical equipment failure and support equipment upgrades.
- Perform design and develop documents including Single Line Diagrams, IO Lists, Electrical Schematics and Layout Diagrams using AutoCAD.
- Ensures all duties and responsibilities are completed in accordance with the Company's Health & Safety, Standard Operating Policies, Procedures and measures are taken to operate all specialized systems in the most efficient manner to keep operating costs at a minimum.
- Communicate with machine manufacturers, sub-contractors and concerned regulatory bodies to keep all the operating units running smoothly.
- Sourcing spare parts, maintaining supplies inventory by checking electrical material stock to determine inventory levels, anticipating needed supplies, placing and expediting orders for electrical material, reviewing and approving invoices.
- Keeping equipment operating by following operating instructions, troubleshooting breakdowns, maintaining supplies, performing preventive maintenance & calling for repair.

Al-Muslim Group

Executive (Maintenance- Electrical & Utility)

Ulail, Savar

Jan 2014 – Feb 2016

- Performed installation, maintenance, and troubleshooting activities of all electrical equipment including Substation, Generator, Air Compressor, Chiller, Boiler etc.
- Supervised maintenance and troubleshooting of Conveyer Oven, WTP, ETP, CNG plant, BBT, Washing plant, Yarn Dyeing Machines, Dry process unit etc.
- Ensures maintenance of LT-HT Switchgear, Transformer, Power Plant and Safety equipment.
- Functionality checking of PLC, Inverter and automation control system.
- AutoCAD drawing and design of electrical diagram and layout.
- Maintenance, overhauling and replacing parts according to the maintenance schedule or whenever necessary.
- Spare Management by raising PR (Purchase Order), Price Negotiation through Supply Chain Department & regular follow-up till materials are received in store.
- Support to implementation of a Competency program to identify employee's strengths and weaknesses to evaluate technical training requirements for the team member.

EDUCATION

American International University-Bangladesh (AIUB)

Masters in Electrical & Electronic Engineering (EEE)

CGPA: 3.83

Dhaka, Bangladesh

2020-2021

American International University-Bangladesh (AIUB)*B.Sc. in Electrical & Electronic Engineering (EEE)*

CGPA: 3.43

Publication: "Design of a Brushless DC (BLDC) Motor Controller," Proceedings on 1st International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT) at Military Institute of Science and Technology, 10-12 April 2014.

HSC*Science*

GPA: 4.50

Dhaka, Bangladesh

2010-2013

Dinajpur Govt. College

2008

SSC*Science*

GPA: 5.00

Dinajpur Zila School

2006

PROFESSIONAL LICENSE/CERTIFICATE**Electrical Supervisor's Competency Certificate (ABC License)** Issued: July 25, 2019

Certified by: Bangladesh Electricity Licensing Board (BELB)

Reg. No: S20210004215

TECHNICAL TRAINING**Total Productive Maintenance (TPM)**

Duration: 02 days

- Understand the origin, fundamental concept, benefits and development of TPM as well as its purpose and impact
- Understand equipment losses and take preventive actions.
- Change to a system that prevents, predicts and is proactive in its approach to maintenance

Programmable Logic Controller (PLC)

Duration: 50 Hours

- Industrial Automation, Maintenance and Troubleshooting of the PLC controlled System.
- Practically worked on SIEMENS PLC and HMI.

Diesel Generator

Duration: 03 months

- Understand generator principles and construction.
- Basic knowledge of Operation, Maintenance and Fault finding of the generator.

Basic Microcontroller Programming

Duration: 04 months

- Basic principles of programming PIC series micro-controllers.
- Implement different types of external interfaces including Port programming & LEDs, Seven segment display, Timer, Counter, Relay and so on.

Hydraulics System

Duration: 04 days

- Performance characteristics of Pumps, Valves, Actuators & Systems.
- Practical demonstrations of basic control circuits.

VOLUNTEER ACTIVITIES**AIUB Alumni Association**

2009 – Present

*Member***Prothom Alo Bondhushava**

2006 – 2009

*Volunteer***ADDITIONAL SKILLS AND QUALIFICATIONS****Computer Skills**

- Microsoft Office, Internet
- AutoCAD, PSpice, MATLAB
- Basic knowledge on C, C++, Html, CSS and Photoshop.

Communication Skills

- Maintain up-to-date knowledge on communications and change management best practices, trends and developments and be a point of integration for knowledge sharing.
- Motivate the team through effective monitoring, coaching, counseling and providing a positive working environment.

Leadership Skills

- Possess strong commitment to team environment dynamics with the ability to contribute expertise and follow leadership directives at appropriate times.
- Enjoy working as a team member as well as independently.

LANGUAGE PROFICIENCY

Bangla & English – Have excellent speaking, reading & writing skill.

INTERESTS

- Painting, Travelling, listening Music.

PERSONAL DETAILS

- Father's Name : Md. Sirajul Islam
- Mother's Name : Umma Jasmina Parvin
- Date of Birth : December 19, 1991
- National ID : 3278736032
- Permanent Address : Teghora Narayonpur, Farakkabud, Birol, Dinajpur.

REFERENCES

- Engr. Kamrul Hasan
Deputy Executive Director
Head of Maintenance Department
Walton Hi-Tech Industries Ltd.
Mobile: +8801678049740
Email: Kamrul.hasan@waltonbd.com
- Dr. Md. Rifat Hazari
Assistant Professor
Faculty of Engineering
American International University-Bangladesh
Mobile: +8801712147538
Email: rifat@aiub.edu