# Md. Tanvieer Rahman

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## About Me

Dynamic Electrical & Electronic Engineer holding a BSc from Dhaka University, complemented by advanced certifications in PLC Programming (Level-4) and Industrial Automation from BITAC. Expertise in Siemens S7-1200/S7-1500 systems, VFD-driven motor control, and PID applications, demonstrated through projects like automated conveyor belts and traffic light simulations. Proficient in C++, JavaScript, React, and industrial software (MATLAB, Siemens TIA Portal), with a strong foundation in electrical safety protocols and equipment maintenance. Bilingual in English and Bangla, committed to delivering Innovative automation solutions with precision and efficiency.

## Education

**Bsc in Electrical & Electronic Engineering** 2019 – 2022
Dhaka University Barishal

**Higher Secondary Certificate (HSC)** 2016 – 2018
Cantonment Public School & College Saidpur Nilphamari

**Secondary School Certificate (SSC)** 2016
Cantonment Public School & College Saidpur Nilphamari

## Professional Training

**Programmable Logic Controller (PLC) , Level-4 (Competent),** 10/2024 – 01/2025
*Training at Tool & Technology Institute (TTI) BITAC, Dhaka.*
**Certified by NSDA(National Skills Development Authority)**

- Industrial Automation, PLC Programming
- HMI and PLC Configuration
- Motor controlling with Variable Frequency Drives (VFD)
- Hydraulic and pneumatic Actuators and Valves Control
- Focused on cutting-edge techniques and industrial automation technologies

Projects completed in this training:

- Traffic light control system: Simulate and control traffic lights using a PLC
- Conveyor belt automation: Automate a conveyor belt system for material handling
- Sequence control: Different types of hydraulic and pneumatic valves control with PLC
- Temperature control system: Control and monitor temperature using PID system Motor speed control: Control the speed of a motor using a PLC and a RTD sensor

**Industrial Robot Operation and Troubleshooting at BITAC, Dhaka** 01/2025 – 04/2025

- Robot Operation and Troubleshooting
- Sensor Integration and Calibration
- Robot Simulation and Programming

**The short term training programme on PLC at BITAC, Dhaka** 09/2024

- Completed a course on PLC, VFD, HMI, and VFD programming.
- Focused on advanced industrial automation techniques

**Industrial Training, Training Institute for Chemical Industry (TICI)** 03/2024

- Description: Fundamentals of power distribution systems.
- Equipment operation (transformer, circuit breakers) .
- Electrical Safety protocols and acident prevention.
- Efficient handling of customer queries and complaints.

## Technical Skills

### Industrial Automation & Control Systems

• PLC Programming (Siemens S7-1200 & S7-1500)
• PID Control Systems
• Variable Frequency Drives (VFD)
• Actuators & Valves Control

### Industrial Robotics

- Mitsubishi RV-2FRB-D-S25 (Compact, high-precision robot for assembly, pick-and-place, packaging)
- Control Unit CR800-O2VP-S25 with I/O Interface (2D-TZ378)
- Teaching Box R56TB
- Malfabasic
- Sirous Studio

### Electrical & Maintenance Skills

• Basic Circuit Design
• Equipment Maintenance
• Industrial Safety Protocols

### Software Proficiency

- Matlab
- Microsoft Office Suite
- Adobe Illustrator & Photoshop
- Visual Studio
- Canva

**Programming & Web Development**

• Languages: C, C++, JavaScript
• Web Technologies: HTML, CSS, Bootstrap, Tailwind CSS
• Frameworks/Libraries: React, Node.js
• Backend & Database: Firebase

## Exprience

**Post: Ececutive Officer**
**01-02-23 to 30-10-24**
**INDUSTRIAL AUTOMATION SOLUTION**
**Sky City Tower, Purbo Dendabor, Ashulia, Savar**
**Email: info@iasbd.com, www.iasbd.com**

## References

**Dr. Engr. Md Mazharul Habib**, *Additional Director,*
Bangladesh Industrial Technical Assistance Center (BITAC)
mazharul@yahoo.com, 01965810281

**Mahammad Humayan Kabir**, *Executive Engineer,* Tool & Technology Institute (TTI), BITAC, Dhaka
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## Declaration

I certify that any willful miss-statement described herein leads to my disqualification or dismissal if employed. Please call/e-mail me, if you have any queries regarding any associated matters