# Ariful Islam Arif

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## CAREER OBJECTIVE

Automation & Controls Engineer with hands-on experience in electrical panel assembly, PLC/HMI programming, IoT integration, and field commissioning. Delivered 18+ automation projects for global clients including Ford and McDonald's. Skilled in Siemens TIA Portal, Codesys, WinCC, Modbus, Profinet, and Node-RED, with a strong foundation in software development to bridge industrial automation and digital transformation.

## EXPERIENCE

**Maverick Power**                                                                             Mckinney, USA
**Electrical Wiring Tech**                                                             Aug. 2025 – Present
- Assembled and tested power distribution panels using detailed schematics and torque specifications.
- Performed QA inspections and electrical continuity tests to ensure compliance with Maverick's standards.
- Gained in-depth knowledge of wiring practices and panel standards to support transition into engineering roles.

**Esquire Electronics Ltd.**                                                        Dhaka, Bangladesh
**Automation & Controls Engineer**                                           Feb 2023 – Jan 2025
- Supervised installation and commissioning of HVAC control panels and automation systems.
- Configured and tested PLC-based control logic for power distribution and building management systems.
- Integrated sensors, VFDs, and controllers into centralized monitoring systems.
- Diagnosed and resolved field automation issues, using real-time data for performance optimization.

**Polisea S.A**                                                                             Craiova, Romania
**Electronic and Automation Engineer (Software, IoT & Industrial Automation)**    Jan. 2020 – Sep. 2022
- Designed and commissioned PLC/HMI/SCADA systems (Siemens TIA Portal, WinCC, Modbus, Profinet).
- Developed IoT dashboards with React, Node-RED, and MQTT to monitor 500+ signals.
- Delivered automation solutions for smart energy monitoring, smart parking, and robotics integration (UR3 robot systems).

## FEATURED PROJECTS (more details at https://arifulmrislam.github.io/minimal-portfolio/)

- **Ford – Chassis Recognition System** | *Siemens S7-1200, WinCC, Profinet*
  - Led integration of PLC + vision system for automated chassis number recognition; performed system validation and client acceptance testing.
- **McDonald's – Utility Monitoring & Cost Control** | *LoRaWAN, MQTT, PostgreSQL, ThingsBoard*
  - Developed IoT dashboard system across sites enabling real-time consumption monitoring and flagged anomalies
- **Cummins Generator Technologies – Temperature Measurement System** | *Siemens PLC, HMI, Sensors, Data Logging*
  - Designed automation logic and HMI to capture rotor temperature (100–200 °C) as rotors pass by sensors; included real-time logging, alarm control, and validation.

## EDUCATION

**Daffodil International University (DIU)**                                     Dhaka, Bangladesh
B.Sc. in Electrical & Electronics Engineering | GPA: 3.27/4.00     May 2016 – Jan 2020
**Coursework:** Electrical Circuit Analysis, Control Systems, Digital Electronics, Embedded Systems, Microprocessors & Microcontrollers, Instrumentation and Measurement, Data Structures & Algorithms, MATLAB

## TECHNICAL SKILLS

**Automation & Controls:** Siemens TIA Portal, Codesys, WinCC, LOGO!Soft, Modbus, Profinet, Node-RED, SCADA, PLC/HMI Design
**IoT & Networking:** MQTT, LoRaWAN, ChirpStack, IoT2040, Raspberry Pi, Cumulocity, Mindsphere
**Software Development:** JavaScript, TypeScript, React, Node.js, Express, PostgreSQL
**Hardware & Tools:** Dell Edge Computers, VFDs, Universal Robots, Electrical Panel Assembly & Testing
**Other:** FAT/SAT Documentation, Circuit Design, Wiring Standards, Safety & Compliance