MD RIFAT AL AMIN KHAN

Electrical and Automation Engineer
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I am a Passionate electrical and automation engineer, looking for research opportunities in the fields of industrial power automation, control and robotics, embedded systems, IoT, and cyber-physical systems. I have seven years of industry experience related to automation and production processes and have professional training with certification in automation and renewable energy. I want to extend my knowledge further and contribute to this field at the industry level.

WORK EXPERIENCES

16 Nov 2016 to 3 Jan 2023	**Reckitt (Bangladesh) Ltd.** **Assistant Manager (Electrical and Automation), Engineering Department** • Develop & maintain controls systems for fully automated production machineries • Troubleshoot issues related to electrical, instrumentation, and control systems (PLCs and SCADA) • Program modification in Siemens and Allen-Bradley PLC based SCADA system. • Operation and Maintenance of 1MW two gas generator and 11KV 1000KVA substation.
1st Feb 2016 to 14 Nov 2016	**BRB Cable Group of Ind. Ltd** **Production Engineer** • Production scheduling, Labor organizing, Time and motion study • Downtime and break down analysis, OEE improvement • Root cause analysis for quality fault • Kaizen implementation, Process improvement

PROFESSIONAL SKILL

Programming Language	Machine Language, C, C++, Python, micro-C, Simulink, Ladder Logic, Functional Block Diagram, Structured List.
Design and Simulation software	AutoCAD 2D&3D, COMSOL Multiphysics, MATLAB, Orcad PSpice, proteus 8 professional.
PLC Programming	Siemens S7 PLC (TIA POARTAL V14), Rockwell Factory Talk and Logix Designer.
Microprocessor Programming Knowledge	PIC (12, 16,18 and Dsp PIC family), AT mega (Arduino Platform), Arm cortex M processor TM4c123 microcontroller.

Computer Application & Networking Typesetting Tool	Microsoft Office, Windows 12 Server system, CCNA, Linux server system. **LaTeX (Overleaf editor)**

EDUCATION

2011 to 2015	**Bachelor of Science (Electrical & Electronics Engineering)** International Islamic University Chittagong GPA: 3.259 out of 4. Major: Power Minor: Electronics
2009 to 2010	**Higher Secondary School Certificate** Chittagong College Chittagong GPA: 4.39 out of 5. Science
Passed in 2008	**Secondary School Certificate** Chittagong Port Authority High School GPA:5 out of 5, Science

THESIS, PUBLICATION& PROJECTS

Undergraduate Thesis	A study of flexible piezoelectric Energy Harvester (IIUC, Chittagong)
Publication	"Energy Harvesting Based on Cantilever Beam for Different Piezoelectric Materials from Acoustic Vibration by Simulation Process" IEEE 2016, Dhaka, Bangladesh. DOI: **10.1109/ICECE.2016.7853920**
Projects	• Electronic voting machine (EVM). Atmel SAM3X8E, Arduino platform, Fingerprint recognition and Internet connected database. • Automatic Voltage controller Using PIC18F877A, micro-C. • Portable Human pulse monitoring device. IR, PICPIC18F877A, Display. • Food Processing machine Automation Delta PLC and DELTA HMI. • Automatic Chemical Dossing station for Textile Mill. Siemens PLC and HMI. • Automatic pump control system for water treatment plant for textile Mill. Delta PLC and DELTA HMI.

PROFESSIONAL TRAINING

	Embedded Systems - Shape the World University of Texas System through Online. Arrays and Functional Debugging, UART, DAC, ADC, System approach to game design, IOT.

Programmable Logic Controller (PLC)
Training Institute for Chemical Engineering, Bangladesh
Advance PLC, Analog and Digital I/O, PID, HMI (Omron, Siemens S7-300, S7-400, S7-1500 Allen Bradley).

Advanced Industrial Automation
Nfiautomation online
Modifying or Create New Ladder logic program for PLC, HMI & AC Drives (Delta, Allen Bradley, Siemens) Servo Motor and drive programming.

ELEC301x: Discrete Time Signals and Systems
Rice University through online

ET3034TUx: Solar Energy
Delft University of Technology through online
Working principle of a semiconductor-based solar cell, Solar cell operation, performance and design rules, c-Si wafers, Thin Film PV Technologies, Third generation PV, solar thermal and solar fuels.

Introduction to Biomedical Imaging
The University of Queensland, Australia through online

LANGUAGE

International English Language Test (IELTS) -26 February 2022
Overall:**6.5**; Listening: **6.5**, Reading: **7**
Speaking:**6.5**, Writing:**6**, CEFR Level: **B2**

REFERENCE

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I do hereby declare that all the above information is true and correct to the best of my knowledge.

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Md. Rifat Al Amin Khan