# Tasin Islam Wasi

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## CAREER OBJECTIVE

I am an **Electrical and Electronics Engineer** looking for a role where I can apply my skills in designing and managing electrical systems. My goal is to contribute to projects that focus on sustainable solutions and cutting-edge technologies. I aim to bring my analytical mindset and problem-solving abilities to a team-oriented environment. I am eager to work with a forward-looking company that values innovation and provides opportunities for professional growth, allowing me to make a meaningful impact in the field of electrical engineering.

## INTERPERSONAL SKILLS

- **Analytical Skills:** Logical reasoning, system analysis, and data interpretation
- **Communication Skills:** Technical documentation, team collaboration, and cross-functional coordination
- **Problem-Solving Skills:** Creative troubleshooting, adaptive thinking, and timely decision-making

## TECHNICAL SKILLS

| | |
|---|---|
| ❖ **Power Distribution :** | LT Panel, ACB, MCB, Circuit Design and Analysis, Solar panel. |
| ❖ **PLC :** | Siemens Logo, logo soft comfort. |
| ❖ **Embedded systems :** | AGV, RTOS, DSP, ML, MicroPython. |
| ❖ **IoT Platform** | AWS IoT, Azure IoT Hub, Google Cloud IoT, Blynk. |
| ❖ **Electronic Design Automation (EDA) :** | Fritzing, EasyEDA, Proteus, PCB Design, Altium, KiCad. |
| ❖ **CAD Software :** | AutoCAD 2D/3D, AutoCAD Electrical, Rhinoceros 3D, 3D prototype modeling. |
| ❖ **Microcontroller :** | Arduino, STM, Raspberry Pi, and ESP8266/ESP32, AVR/ARM. |
| ❖ **Programming :** | C/C++, Python, HTML/CSS, JavaScript. |
| ❖ **Cloud Platforms :** | AWS, Kaggle, Google Cloud. |
| ❖ **IDE :** | VS Code, Arduino IDE, PyCharm. |
| ❖ **Web & Software :** | WordPress, Flutter, Google Site, Git, GitHub. |
| ❖ **Networking :** | Cisco packet tracer, OSI, TCP/IP, Wi-Fi, BLE |
| ❖ **Database :** | Data Management, Data Modeling, ETL, XAMPP, powerBi, Excel. |

## PROJECTS

| Automation and IoT Devices: | Computer projects: | Internship projects: |
|---|---|---|
| • **Smart traffic control system using piezoelectric (Final year Defense)**<br>• Digital Clock Design using 555 Timer IC<br>• **Web weather monitor using ESP8266**<br>• Fire safety and security alarm system<br>• **Smart Ultrasonic Humidifier – NANO**<br>• Motion activated light using PIR<br>• **Automatic smart door using IR proximity**<br>• Web controlled smart switch using ESP8266 | • **CRUD Application and   webpage**<br>• Dashboard webpage for get IOT device data update.<br>• **Portfolio Website**<br>• Dashboard with power Bi<br>• **CRM/BMS Software.** | • **Soap factory manufacturing unit Automation model (Internship)**<br>• Poultry farm environment motoring system (Internship)<br>• **Tractor tracking and monitoring system (Internship)** |
| | **Design projects:** | **Ongoing projects:** |
| | • **Electrical Floor Drawing.**<br>• AC/DC circuit.<br>• **Layout Design of CMOS Inverter**<br>• PCB Design for Soap factory.<br>• **2D/3D Object.**<br>• 3D printing product. | • **Real-Time object detection for smart surveillance.**<br>• **Personal Ai chatbot.** |

## PROFESSIONAL EXPERIENCE

### Advanced Chemical Industries Limited (ACI)
Machine learning Engineer (Intern)
December 2023 – March 2024
Tejgaon, Dhaka, Bangladesh

During my 3-month internship at ACI Ltd., I gained valuable experience in creating professional-grade factories using devices such as Arduino and other open-source boards. My responsibilities included circuit design, device programming, code development, design planning, and creating web forms for IoT devices. I successfully contributed to various aspects of the project, showcasing my skills in hardware and software integration for industrial applications.

### Believer Power & Engineering Ltd.
Assistant Engineer
June 2022 - August 2023
Mirpur, Dhaka, Bangladesh

Worked at Believer Power & Engineering as an Assistant Engineer, importing, selling, and setting up industrial devices like elevators and generators from China. Learned hands-on skills in device installation, troubleshooting, and project coordination.

## EDUCATION

| Exam Title | Concentration/Major | Institute | Result | Year | Duration |
|---|---|---|---|---|---|
| Bachelor of Science (BSc) | Electrical & Electronic Engineering | Manarat International University | CGPA:2.84 out of 4 | 2023 | 4 |
| Higher Secondary School Certificate (HSC) | Science | Dhaka model degree college | CGPA:3.83 out of 5 | 2018 | 2 |
| Secondary School Certificate (SSC) | Science | Bangladesh Mukti Joddha high school | CGPA:4.72 out of 5 | 2016 | 2 |

## ACTIVITIES

❖ Workshop on **"A to Z of Transformer"** on 4th December, 2021 in MIU. The workshop was conducted by Mr. M A Masud Khan, manager Greade-1, Sena Kalyan Electric Industries.

❖ Expanded my knowledge of fire safety and security measures by participating in the 9th **International Fire, Safety, and Security Expo (IFSSE) 2024**. Explored innovative solutions and connected with key industry players.

❖ Attended the 9th **POWER-GEN 2024** expo in Dhaka, Bangladesh, May 16-18. Gained insights into power industry advancements

## FIELD OF INTEREST

- Manufacturing and Distribution
- IT & Telecommunication
- Power and Distribution
- Embedded systems or Automation
- Electrical Design
- Semiconductor Design

## HOBBIES

### Virtual Geographical Exploration
Passionate about Virtual Geographical Exploration, I enjoy exploring global locations through Google Maps and Street View. This hobby allows me to gain insights into diverse cultures, landscapes, and historical landmarks, enhancing my knowledge of the world's geography and infrastructure.

## REFERENCE

**K.M. Aktheruzzaman**
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