Tasin Islam Wasi

Date of birth: 11/11/1999 | **Place of birth:** Dhaka, Bangladesh | **Nationality:** Bangladeshi | **Gender:** Male | **Phone number:** (+880) 01828601634 (Mobile) | **Email address:** tasinwasi646@gmail.com | **Website:** tasinislamwasi.github.io | **LinkedIn:** www.linkedin.com/in/tasinislamwasi |

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ABOUT ME

Electrical and Electronics Engineering graduate with a passion for embedded systems, IoT, and automation. Experienced in machine learning applications, industrial automation, and energy-efficient systems. Strong foundation in hardware-software integration, research-driven projects, and real-time system development. Seeking opportunities to innovate in smart systems, renewable energy, and next-gen communication technologies.

EDUCATION AND TRAINING

01/01/2019 – 07/09/2024 Dhaka, Bangladesh

BACHELOR OF SCIENCE (BSC) Manarat International University

Website manarat.ac.bd | **Field of study** Electrical and Electronic Engineering (EEE) | **Final grade** 2.84 (Out of 4.00) | **Level in EQF** EQF level 6 | **Type of credits** Credit hour | **Number of credits** 147

01/06/2016 – 19/07/2018 Dhaka, Bangladesh

HIGHER SECONDARY CERTIFICATE (HSC) Dhaka Model College

Website dmdcollege.edu.bd | **Field of study** Science | **Final grade** 3.83 (Out of 5.00) | **Level in EQF** EQF level 5

01/01/2014 – 11/05/2016 Dhaka, Bangladesh

SECONDARY SCHOOL CERTIFICATE (SSC) Bangladesh Muktizodha Ucha Bidyalay

Website www.bmhsdhaka.edu.bd | **Field of study** Science | **Final grade** 4.72 (Out of 5.00) | **Level in EQF** EQF level 4

SKILLS

Electronic Engineering | Embedded system | Internet of Things | Circuit Design | computer programming | Web Applications | Power Distribution | Troubleshooting | PLC Programming | Data Analysis | Software Development | C++ | Python | Linux | JavaScript | Machine Learning | PCB Design | Arduino IDE | AutoCad 2D/3D | Rhino | Microsoft Office | HTML | CSS | Object-Oriented Programming | Web Development | provide power distribution | machine learning | data mining | deliver visual presentation of data | QA & Testing | Github | Product Development

PROJECTS

02/03/2024 – 28/03/2024

Smart Poultry Farm Monitoring System (Internship)

This is an innovative IoT device designed for continuous, 24/7 poultry farm surveillance. This intelligent system meticulously detects critical environmental factors such as ammonia and other toxic gas levels, along with precise temperature measurements, ensuring optimal conditions for poultry health. Beyond its comprehensive sensing capabilities, the device integrates advanced vision control for visual monitoring and offers remote command over essential farm equipment, including water pumps, lighting, and fans. Crucially, it constantly collects and transmits vital data directly to the farmer's smartphone, providing real-time insights and enabling immediate, informed decision-making for enhanced farm management and productivity.

05/02/2024 – 15/02/2024

Soap manufacturing automation unit (Internship)

Automated miniature soap factory, expertly integrating dispensing, conveying, and processing stages. Utilizing hoppers for raw materials, an array of sensors for precise control, and multiple motor drivers for actuation, the system demonstrates a streamlined production line. The clearly labeled wiring and motor drivers indicate a well-structured control system, making this an excellent prototype for illustrating automated manufacturing principles in a simplified yet effective manner

Link https://github.com/TasinIslamWasi/-Soap-manufacturing-automation-unit-Internship-

03/03/2023 – 18/04/2023

Smart Traffic Management System Using Piezo Electric (Final Year Project)

For my final year capstone project, I developed a Smart Traffic Management System that utilized piezoelectric sensors embedded under the road surface to detect vehicle pressure and vibrations. The collected data was processed by an Arduino microcontroller to adjust traffic signals for optimized traffic flow. The system also harvested energy from the piezoelectric sensors, making it self-sustaining, and aimed to improve urban traffic efficiency, reduce congestion, and enhance road safety.

06/12/2022 – 08/12/2022

Energy Harvesting from Footsteps (Piezoelectric Tiles)

This project focused on designing a system to harvest energy from human footsteps using piezoelectric tiles. The tiles generated electrical energy as people walked over them, which was then stored in batteries for later use. The goal was to develop a sustainable, low-cost energy source for powering small devices or urban infrastructure like streetlights.

01/11/2022 – 12/11/2022

Smart Traffic Light Control System

This project aimed to develop an intelligent traffic management system using sensors and algorithms to optimize traffic light cycles based on real-time traffic flow. The system helped in reducing congestion, minimizing energy usage, and improving road safety by adjusting traffic lights dynamically based on vehicle density.

20/06/2022 – 25/06/2022

IoT-Based Weather Monitoring System

This project aimed to develop an IoT-based weather monitoring system that collected real-time data from weather sensors such as temperature, humidity, and pressure. The data was transmitted to a cloud platform for analysis and real-time access. The system helped in climate research and disaster preparedness by providing valuable environmental insights.

01/04/2022 – 15/04/2022

Solar-Powered Smart Irrigation System

This project focused on using solar energy and IoT-based sensors to optimize water usage for irrigation in agriculture. The system used soil moisture sensors to measure the soil's water content and automatically activated the irrigation system when needed. The solar panel provided energy for the entire setup, making it an eco-friendly solution for sustainable farming practices.

WORK EXPERIENCE

MACHINE LEARNING ENGINEER (INTERN) – ACI LTD – 01/12/2023 – 31/03/2024 – 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 developing 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.

ASSISTANT ENGINEER – BELIEVER POWER & ENGINEERING LTD. – 01/06/2022 – 31/08/2023 – 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.

CONFERENCES AND SEMINARS

15/09/2024 – 17/09/2024 Dhaka

International Fire, Safety, and Security Expo (IFSSE) 2024

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.

16/05/2024 – 18/05/2024 Dhaka

POWER-GEN 2024

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

04/12/2021 – 04/12/2021 Manarat International University

A to Z of Transformer

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.

Link https://drive.google.com/file/d/1ecJTVJiNijx4niHlbQgzbMZwzEisEdTZ/view?usp=sharing

LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

HOBBIES AND INTERESTS

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. Write here the description...

RECOMMENDATIONS

K.M. Aktheruzzaman Head & Associate Professor

K.M. Aktheruzzaman holds the esteemed position of **Head & Associate Professor** in the Department of Electrical & Electronic Engineering at Manarat International University. He can attest to my **academic commitment, intellectual curiosity, and potential for advanced studies.** (Phone: 01715408417)

Phone (+880) 01715408417

Md. Rahat Khan Redoy IOT Developer, Dept. of MIS, ACI ltd

Md. Rahat Khan Redoy is an accomplished **IOT Developer** within the Department of MIS at Advanced Chemical Industries Limited (ACI), a leading corporate entity. He can speak to my **technical skills, professional conduct, and problem-solving abilities.** (Phone: 01704114243)

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