



## Alamin

### Contact Information

Email: [alamin20.ice@gmail.com](mailto:alamin20.ice@gmail.com),

Phone No: [+8801887-1717127](tel:+8801887-1717127).

## CAREER OBJECTIVES

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To work in a challenging environment where I can utilize my academic knowledge, programming skills, and research abilities in the fields of Web Engineering, IoT, Machine Learning, and Embedded Systems to contribute to the development of innovative technologies.

## EDUCATION

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Bachelor of Science in Engineering 2023 (held in 2025)	Department of Information & Communication Engineering, Pabna University of Science and Technology, Pabna-6600, Bangladesh. Result: 3.74 Scale of 4.0
H.S.C 2018	A. Rouf Degree College, Dakbandia Bazar, Jhenaidah. Group: Science, Board: Jessore Result: 4.33 (Scale of 5.0)
S.S.C 2016	Bazar Gopalpur School and College, Jhenaidah. Group: Science, Board: Jessore Result: 4.5 (Scale of 5.0)

## RESEARCH INTEREST

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- Embedded System
- Machine & Deep Learning
- Signal & Image Processing
- IoT
- Artificial Intelligence
- PCB design and 3D Printing

## RESEARCH EXPERIENCE

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- Designed and implemented a microcontroller-based system for automated AC load control (Embedded Systems-based AC Device Controller).
- Developed an IoT-based dynamic product price display system for retail services.
- Developed a deep multi-layer perceptron model for human activity recognition using the UCI-HAR dataset.
- Applied YOLOv8 for highway traffic vehicle detection and classification.
- Designed and tested a radio-controlled aircraft for safety surveillance and emergency transportation under PUST research funding (2022–23).

## SKILLS

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- Programming Languages: Python, C, C++, Java, MATLAB
- Web & Tools: HTML, CSS, PHP, ASP.NET
- Database: SQL, MySQL
- Platforms & OS: Windows, Ubuntu, Fedora
- Embedded & IoT: Arduino, MikroC, Embedded, Esp32, Esp8266
- Others: PCB design and Printing, Circuit Desing, Microsoft Office, NS2, YOLOv8, Latex, Cisco Packet tracer.

## LANGUAGE SKILLS

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Bengali : Native.  
English : Proficient in listening, reading, writing, and presentation.

## PUBLICATIONS

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- [1] Md. Anwar Hossain, Sajeeb Kumar Ray, Naima Islam, **Alamin**, Mirza AFM Rashidul Hasan. (2024). "Enhanced human activity recognition through deep multi-layer perceptron on the UCI-HAR dataset", International Journal of Advances in Applied Sciences, p-ISSN 2252-8814, e-ISSN 2722-2594. Vol. 13, No. 2, pp. 429–438. <https://doi.org/10.11591/ijaas.v13.i2.pp429-438>.
- [2] N. Islam, S. K. Ray, M. A. Hossain, M. A. Rashidul Hasan, **Alamin** and M. B. Al Zabir Shammo, "Vehicle Classification and Detection Using YOLOv8: A Study on Highway Traffic Analysis," 2024 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET), Rajshahi, Bangladesh, 2024, pp. 1-4, doi: 10.1109/ICRPSET64863.2024.10955913.
- [3] **Alamin**, S. K. Ray, M. A. Hossain, M. A. R. Hasan, N. Islam and M. M. A. Hossain, "Embedded Systems-Based AC Device Controller," 2024 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET), Rajshahi, Bangladesh, 2024, pp. 1-6, <https://doi.org/10.1109/ICRPSET64863.2024.10955881>.
- [4] S. K. Ray, Ariful Islam, M. C. Chanda, N. Islam, M. A. Hossain, M. A. R. Hasan, **Alamin**, "Deep Learning Based Lung Image Segmentation Using XR-U-Net," 2024 27th International Conference on Computer and Information Technology (ICCIT), Cox's Bazar, Bangladesh, pp. 2659–2664, 2024. <https://doi.org/10.1109/ICCIT64611.2024.11022346>.

## PROJECT & THESIS

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1. 3<sup>rd</sup> Year 2<sup>nd</sup> Semester Project

Title: IoT Based Smart Product Price List Display Board [ Accepted and presented at the ICCIT Conference, 2025 ]

## 2. Undergraduate Thesis

Title: Design and Implementation of an ATmega328P-Based Smart Protection System for Water Pump Motors with Inrush Current Control and Timer Integration.  
[Under review in the Journal of Electrical Engineering]

## 3. Web Project

- **Suzit Special Batch** – [suzitspecialbatch.com](http://suzitspecialbatch.com)

Developed an educational website for managing online classes and student resources using PHP, MySQL, and JavaScript.

- **Masud Physics** – [masudphysics.com](http://masudphysics.com)

Designed and deployed a physics learning platform with content management, class schedules, and resources for students.

## ACHIEVEMENTS & AWARDS

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- **Merit Scholarship - 3rd Position** - Awarded for academic excellence in the Department of Information and Communication Engineering, Pabna University of Science and Technology.
- **Top 5 Team Award - FOREWARN Disaster Hackathon 2.0** - Recognized as one of the top 5 teams for designing an innovative IoT display system. The hackathon, organized by FOREWARN Start Network Bangladesh, focused on building AI-driven humanitarian solutions for disaster management in collaboration with the University of Dhaka and various international organizations.
- **IEEE Project Presentation** - Successfully presented the IoT-based smart product price display system at an IEEE Project Presentation in Pabna University of Science and Technology.
- **IPM School Training Certification** - Completed professional training in Integrated Pest Management (IPM) methodologies, enhancing knowledge in agricultural technology and sustainable practices.
- **Precise Energy Olympiad 2025** - Successfully qualified for and participated in both the preliminary and final stages of the Precise Energy Olympiad 2025, a competitive mathematics, chemistry, and physics olympiad for students in the Rooppur NPP Region, demonstrating strong analytical and problem-solving abilities.

## EXTRA-CURRICULAR ACTIVITIES

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- Volunteer, Madhuhati Publician Association

Madhuhati, Sadar, Jheanidah

*August 2021 – December 2021*

- Assisted in COVID-19 vaccine registration for local people as part of community service.

- ICT-Related Editor, Jhenaidah Publician Association

*Pabna University of Science and Technology*

*From 07 March 2023 to 13 May 2024.*

- Responsible for managing ICT-related content and communications.
  - Contributed to digital event management, publication design, and online engagement.
- Hall Student Representative, Swadhinata Hall  
*Pabna University of Science and Technology*  
October 2024 – December 2025.
- Representing students in hall activities and administrative coordination.

## PERSONAL INFORMATION

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Full name	:	Alamin
Father's name	:	Nazim Uddin
Mother's name	:	Feroza Khatun
Date of birth	:	20 October, 1999
Nationality	:	Bangladeshi
Religion	:	Islam
Sex	:	Male
Blood group	:	"O" positive
Present address	:	Swadhinata Hall, Pabna University of Science and Technology.
Permanent address	:	Village: Shamnagar, Post Office: Bazar Gopalpur, Union: Madhuhati, Subdist: Sadar Jhenaidah, Dist: Jhenaidah, Bangladesh.

## TEACHING EXPERIENCE

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AL AMIN (YouTube Channel)  
Channel Link: [www.youtube.com/@ALAMIN-ab](https://www.youtube.com/@ALAMIN-ab)

- Possess over 3 years of teaching experience, delivering both theoretical and problem-solving-based instruction.
- Experienced in preparing lecture materials, conducting interactive classes, and supporting students' academic development through online and offline platforms.

## REFERENCES

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DR. MD. ANWAR HOSSAIN  
Professor & Chairman  
Department of Information and Communication Engineering  
Pabna University of Science and Technology  
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Tarun Debnath

Assistant Professor

Department of Information and Communication Engineering

Pabna University of Science and Technology

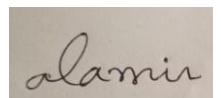
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## **DECLARATION**

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

A rectangular box containing a handwritten signature in black ink, which appears to read "alamir".

Signature