

CURRICULUM VITAE

MOHD AZIZUDDIN AHMED

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CAREER OBJECTIVE:

Seeking a position in an established organization that offers professional growth while being resourceful, innovative and flexible. To work in a professional environment with a dynamic and positive attitude that would give an opportunity to utilize my intellectual ability for betterment of my organization.

EDUCATIONAL QUALIFICATIONS:

| COURSE | INSTITUTION | UNIVERSITY/ BOARD | YEAR OF PASSING | PERCENTAGE |
|---------------------------------------|---|---|-----------------|--------------------|
| M. Tech Electronics and Communication | Girijananda Chowdhury Institute of Management and Technology (GIMT), Guwahati (Now Girijananda Chowdhury University) | Assam Science and Technology University, Guwahati | 2024 | CGPA: 8.66 (86.6%) |
| B. Tech Electronics and Communication | Swami Sarvanand Institute of Engineering and Technology, Dinanagar (Near Pathankot) | Punjab Technical University (Now I. K. Gujral Punjab Technical University), Jalandhar | 2013 | 75.89% |
| AISSCE (XII) | Kendriya Vidyalaya Borjhar, Guwahati | Central Board of Secondary Education, Delhi | 2009 | 65.66% |
| AISSE (X) | Kendriya Vidyalaya Borjhar, Guwahati | Central Board of Secondary Education, Delhi | 2007 | 73% |

TECHNICAL QUALIFICATIONS:

| COURSE | INSTITUTION | YEAR |
|--|--|----------------------------|
| Certificate Course in Advanced Computing | Department of Electronic Science, Savitribai Phule Pune University, Pune | 2016 (Aggregate %: 63%) |
| Advance Embedded System (Based on 8051 Microcontroller, PIC16F877A, ARM LPC2114) | Dream Tech Labs, Amritsar | 2013 |
| Robotics (Based on 8051 Microcontroller) | Appin Technology Lab, Jalandhar | 2012 |
| Embedded System (8051 Microcontroller) | NetMax Technologies Pvt. Ltd., Chandigarh | 2011 |

WORK EXPERIENCE:

Professional with 6 experience as **Laboratory Instructor** in **Department of Electrical Engineering, Girijananda Chowdhury University (formerly Girijananda Chowdhury Institute of Management and Technology) Guwahati** from **8th April 2019 to 31st March 2025**.

LABORATORY INSTRUCTOR (ACADEMIC CAREER) PROFILE SUMMARY:

- **Teaching and Demonstrating** the laboratory subjects.
 - **Classes taken:** Analog Electronics Lab, Digital Electronics Lab, Control System Lab, Microprocessor Lab, Electronics Design Lab, Signal and System Lab
- Assisting the faculties.
- **Mentoring** of students.
- Maintaining laboratory equipments.
- Maintaining laboratory stocks.
- Maintaining safety measures in laboratories.
- Maintaining **Excel Reports, Log Files, MIS reports, Student Attendance.**
- Member of GIMT Eco Club (2021-2023).
- Member of GIMT Movie Club (2021-2023).
- Member of Cine Club in GCU w.r.t. August 2024 till 31st March 2025.
- Member of Circuitry Club in GCU w.r.t. August 2024 till 31st March 2025.
- **Co-coordinator of Movie Making and Movie Club** in GCU w.r.t. 21 August 2024 till 31st March 2025)
- **Co-coordinator of Circuitry Club** in GCU (23 November 2021 – 21 August 2024)
- Invigilator in Exams

PROJECTS:

• ACADEMIC PROJECT:

○ M. Tech Project:

- **Thesis:** Design and Development of a Standalone Biomedical System to Determine Patient's Health Condition Using Machine Learning

Abstract:

The modern patient monitoring system combines biomedical parameter measurement with machine learning algorithms for enhanced health assessment. This paper introduces a biomedical device that integrates sensors such as a Heart Rate/SpO₂ sensor, Temperature sensor with machine learning for real-time health monitoring. Multiple linear regression and ANOVA were utilized to analyze relationships between key factors, including age, weight, gender, medical history, blood pressure, pulse pressure, SpO₂, and heart rate, to predict health status. Additionally, decision tree algorithms classified individuals into different health categories based on vital signs. The system demonstrated high accuracy with minimal error rates, underscoring its potential for reliable and personalized healthcare monitoring.

Publication:

Mohd Azizuddin Ahmed, Alokojwal Das, Sandip Bordoloi: "Design and Development of a Standalone Biomedical System to Determine Patient's Health Condition Using Machine Learning", *International Journal of Advances in Science, Engineering and Technology (IJASEAT)*, Volume - 12, Issue – 3, pp 24-28, 2024

IRAJ DOI Number: IJASEAT-IRAJ-DOI-21085

URL:http://www.iraj.in/journal/journal_file/journal_pdf/6-1009-172907836024-28.pdf

ISSN(p): 2321-8991

ISSN(e): 2321-9009

- **Mini Project:** IoT based greenhouse effect monitoring system and analyzing the relationship of carbon dioxide level with physical parameters

Abstract:

This study introduces a comprehensive IoT-based solution for monitoring and optimizing greenhouse environmental conditions. Given the crucial role of the greenhouse effect in crop cultivation, maintaining optimal parameters such as temperature, humidity, carbon dioxide levels, and atmospheric pressure is essential for efficient plant growth. The proposed system utilizes a network of strategically placed sensors to continuously measure these key environmental factors. The collected real-time data is transmitted wirelessly to a centralized IoT gateway, where it is processed and uploaded to a cloud-based platform for storage and analysis. Further examination of the data enables the determination of the carbon dioxide footprint in relation to daily variations in temperature, humidity, and atmospheric pressure within the greenhouse. This study provides valuable insights into optimizing crop cultivation through CO₂ level analysis.

Publication:

M. A. Ahmed, A. Das, and S. Bordoloi, *Analyzing the Relationship of Carbon Dioxide Level with Physical Parameters in IoT-based Greenhouse Monitoring System*. Gandhinagar, India, 2025, pp. 1–6.

DOI Number: 10.1109/setcom64758.2025.10932504.

URL: <https://doi.org/10.1109/setcom64758.2025.10932504>

- **B. Tech Project:**

- **Main Project:** Home Appliance Control Through Mobile
- **Mini Project:** IR Based Accident Prohibited Robot

YouTube Link: <https://www.youtube.com/watch?v=wvCkqK024kE>

- **Department of Electronic Science, Savitribai Phule Pune University Project:**

- Sickfix Android Mobile App

TOOLS, HARDWARE AND SOFTWARE USED:

- **ACADEMIC CAREER:**

- **Software Used:**

- MATLAB Version R2010, R2013, R2016 & R2019
- SCILAB Version 6.1.1 & 2024.1.0
- Keil µVision Version 3 & 4
- Proteus 7
- NI MultiSim 14.1
- LogiSim 2.7.1
- Arduino IDE
- Jubin 8085 Simulator
- Google Meet
- Zoom
- Dev C++

- **Hardware Used:**

- Different Analog and Digital Circuits making and demonstrate using breadboard, analog and digital components
- Cathode Ray Oscilloscope (CRO)
- Digital Storage Oscilloscope (DSO)
- Frequency Generator
- Pulse Generator
- Arduino Uno
- Arduino Nano
- Microprocessor 8085 Trainer Kit

- **ACADEMICS:**

- **Software Used:**

- Keil µVision Version 3 & 4

- Proteus 7
- Xilinx ISE 8.1i
- MicroC Pro for PIC
- Turbo C++
- Eclipse IDE (for Java, PHP)
- Visual Studio 2012 (for C/C++, C#.NET)
- Sublime Text 3 (for PHP)
- **Hardware Used:**
 - AT89C51
 - P89V51RD2
 - PIC16F877A
 - LPC2114
- **ALL TIME:**
 - **Software Used:**
 - MS Office (Word, Power point, Excel)
 - Google Chrome
 - Mozilla Firefox
 - Microsoft Edge

TECHNICAL SKILLS:

- **Telecommunication Skills:**
 - **Wireless Technologies Known:** GPRS, EDGE, WCDMA, HSPA, LTE, VoLTE
 - **Knowledge in VOIP, SS7 Protocols, SDH, PDH.**
- **Embedded System Skills:**
 - **Languages Known:** Embedded C
 - **Microcontroller Known:** AT89C51, P89V51RD2, PIC16F877A, LPC2114, Arduino
- **Information Technology Skills:**
 - **Languages Known:** HTML, CSS, JavaScript, PHP, Java
 - **Software Known:** Eclipse, Visual Studio 2012, Sublime Text 3, MS Office
 - **Database:** Oracle, MySQL, phpMyAdmin

SOFT SKILLS:

- Hardworking
- Dedicated to work
- Quick adaptive to different environment
- Have good communication skills
- Positive attitude
- Self-confident
- Have management abilities
- Ability to Accept and Learn from different situations

RECOGNITION:

- **PROFESSIONAL:**
 - **Resource Person** at online workshop (lecture and practice session) on “**PROGRAMMING WITH MICROPROCESSOR 8085**” dated 06 November 2021.
 - **Resource Person** at online workshop (lecture and practice session) on “**DOING PROJECTS USING ARDUINO**” from 18 July 2022 to 21 July 2022.
 - **Course Instructor** of Academic Internship 2022 on “**ADVANCED LEARNING OF MATLAB AND SIMULINK**” from 05 September 2022 to 17 October 2022.
 - **Resource Person** at workshop on “**DESIGN OF AMPLIFIERS, FILTERS AND LOGIC CIRCUITS USING NI MULTISIM**” on 10 December 2022.
- **ACADEMICS:**
 - **Class Representative** during B. Tech

ACHIEVEMENTS

- **ACADEMIC ACHIEVEMENT:**
 - Second Topper in B. Tech (in college).

CO-CURRICULAR ACTIVITIES

• AFTER ENTERING INTO SERVICE:

- Industrial Visit to Aksarapatra Amingaon Guwahati as Faculty Member (20 September 2019).
- One Day Industrial Visit to MSME Amingaon Guwahati as Faculty Member (August 2019).
- Faculty Member in the Circuitrix Event in Euphuism 2020 and Euphuism 2024.
- Faculty Member in the Poster Competition in TechMilap 2022.
- Industrial Trip to Karbi Langpi Hydro Electric Plant as Faculty Member (30 March 2022)
- Industrial Trip To M/S Power Maker Amingaon Guwahati as Faculty Member (11 June 2022)
- Member of GIMT Eco Club Activity (Painting Competition at St. Mary School Maligaon on the occasion of World Earth Day) held on 21 April 2022.
- Member of GIMT Eco Club Activity (Best Out of Waste) held on 22 December 2021.
- Co-ordinating member in webinar (01 August 2021).
 - **Topic:** Career Avenues in Electrical Engineering
 - **Organized By:** Department of Electrical Engineering, GIMT
- Co-ordinating member in webinar (08 August 2021).
 - **Topic:** Effective CV/Resume Writing
 - **Organized By:** Department of Electrical Engineering, GIMT

• AS A STUDENT:

- Participated in Junior General Knowledge and Intelligence Test and secure 68% marks which was conducted by Central Institute of General Knowledge Learning (Event Date: 10 October 2002)
- Participated in National Standard Examination in Chemistry 2007-2008 (At Class XII Level) and placed among the top 10% of the examination. It was organised by the Indian Association of Physics Teachers. (Certificate Date: 21 January 2008)
- 1st Prize at Roboprix (Path Finder) event National Level Techno-Cultural Carnival “Udaan 2012” which was conducted by Global Institutes Amritsar. (Event Date: 18-19 October 2012)
- 2nd Prize at Roboprix (Dhoom Again) event National Level Techno-Cultural Carnival “Udaan 2012” which was conducted by Global Institutes Amritsar. (Event Date: 18-19 October 2012)

WORKSHOP/SHORT TERM COURSE/FDP PARTICIPATED:

- FDP (17 May 2019 - 18 May 2019) done on “Fuzzy Logic Applications in Engineering”.
- FDP (26 August 2019 – 30 August 2019) done on “Power Electronics and Drive Systems”.
- FDP (9 December 2019 – 14 December 2019) done on “Engaging Today’s Learner”.
- STTP (29 June 2020 – 4 July 2020) done on “Modern Power Plant Technologies: Policies, Industrial Practices and Sustainability”.
- STTP (15 July 2020 – 19 July 2020) done on “Energy Conservation Opportunities in Industries and Their Cost Analysis”.
- STTP (24 July 2020 – 28 July 2020) done on “Modelling and Simulation using MATLAB”.
- Workshop (15 February, 2021, 17 February 2021 – 20 February 2021) done on “Familiarization with LATEX: A Powerful Tool for Technical Writing”.
- Workshop (12 July 2021 – 16 July 2021) done on “Inculcating Universal Human Values in Technical Education”.
- Workshop (30 April 2022) done on “Masterclass In LATEX :: A Powerful Typesetting Tool”.
- Webinar (27 June 2022) done on “Impact Lecture Series (Lecture I, Series-I) on Topic “Intellectual Property Rights: Importance and Its Implications in Indian Context”.
- FDP (8 January 2024 – 12 January 2024) done on “UHV (Universal Human Values) - II”.

MEMBERSHIP OF PROFESSIONAL SOCIETIES:

- Lifetime member of International Association of Engineer (IAENG)
- Lifetime member of UNESCO Association

PERSONAL PROFILE:

| | | |
|------------------------|---|---|
| Name | : | Mohd Azizuddin Ahmed |
| Father's Name | : | Late Md Askar Ali |
| Date of Birth | : | 01 March, 1991 |
| Nationality | : | Indian |
| Gender | : | Male |
| Language Known | : | English, Hindi, Assamese |
| Hobbies | : | Gaining and Adventuring New Things |
| Correspondence Address | : | Near Majali L.P. School, Village Dharapur Majali, P.O. Azara, Guwahati, District Kamrup Metropolitan, Assam-781017 |
| Permanent Address | : | Near Majali L.P. School, Village Dharapur Majali, P.O. Azara, Guwahati, District Kamrup Metropolitan, Assam-781017 |

DECLARATION:

I hereby declare that the above particulars furnished by me are true to the best of my knowledge and belief.

Date: 03 APRIL 2025

Place: GUWAHATI



MOHD AZIZUDDIN AHMED