

# Krishna Aindrila Kar

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## Education:

B.Sc in Electrical & Electronic Engineering <b>Bangabandhu Sheikh Mujibur Rahman Science and Technology University (BSMRSTU)</b>	3.06/4.00
Higher Secondary Certificate/ Intermediate Meherpur Govt. Mahila College, Meherpur, Jashore Board	5.00/5.00
Secondary School Certificate/ Matriculation Meherpur Govt. Girls' High School, Meherpur, Jashore Board	5.00/5.00

## Scholastic Achievements:

- Achieved **A+ grade** and successfully completed the training course on Electrical and Electronic Engineering at **Training Institute for Chemical Industries(TICI)**
- Awarded Scholarship for exceptional performance in **Junior School Scholarship Examination** by Jashore Board 2009
- Awarded Scholarship for exceptional performance in **Primary School Scholarship Examination** by Khulna Zone 2006

## Areas of Interest:

Data Science, Signal Processing, Communication, VLSI Designing, Embedded System , Hardware Security, Electronic System, Transistor Designing, Electromagnetics, Machine Learning, Artificial Intelligence, Materials, Nanotechnology.

## Research Experiences:

### B.Sc Thesis, Enhancement of ECG Signal By Reducing Noises with A Particular Filter

Guide: Parama Sridevi, Lecturer, EEE Department, BSMRSTU

- The goal of my B.sc thesis is to **enhance of the ECG signal** by reducing different types of noises, particularly those arise from different types of manual activities or sometimes in the signaling.
- In my study, **Butter-Worth Filter** was used to filter and mask different types of low pass noises to get the enhanced ECG signal.

### Course Project on Traffic Signal Controlling with PLC

Guide: Prof. Japatosh Mondal, assistant professor , EEE Department, BSMRSTU

- The main concept of this project was to **control the traffic with an automated system** called Programmable Logic Controller(PLC)
- The goal of using PLC was to control traffic from a remote area without any kind of wiring or manpower.

## Technical Strength:

- **Programming Skills** : C, Python, Matlab, Assembly, PLC, Simulation

- **Tools & Hardware Platform:** Matlab, AutoCAD, Cadence, Pspice, Multisim, Linux, Emu8086, logosoft, ukeil, proteus, Anaconda, Spyder, Jupyter Notebook, Simulink, Cadence, Turi Create.

### Relevant Courses:

VLSI Designing, VLSI Designing Lab, Digital Signal Processing, DSP Lab, Programming Language, Microcontroller and PLC Based System Design, Electrical Properties of Materials, Communication System, Microprocessor, Interfacing and System design, Signals and Linear Systems, Numerical Methods, Electromagnetics, Electronics and Devices, Electronic Circuit Simulation Lab, Microwave Integrated Circuits.

### Technical Training and Participations:

- **Training : Electrical Industries training** course was offered by TICI (Training Institute for Chemical Industries)
- **Participation:** PLC workshop, a three days workshop about the applications of **PLC automation** done by the professionals of TICI on 15<sup>th</sup> July 2018.
- **Participation:** Coursera online Courses on **Python for Everybody** from June 15, 2020 to July 14, 2020 authorized by University of Michigan completed successfully and achieved the certificate.
- **Participation:** Coursera online course on **Python Data Structure** from July 18, 2020 to August 22, 2020 authorized by University of Michigan, Completed successfully and certified.

### Other Activities:

- **Strength:** Enthusiasm, Friendly, Active, Cooperative, Dedicated, Jolly.
- **Hobby:** Reading, Writing, Singing, Anchoring, Travelling, Making New Friends, Exploring.
- **Language:** Bangla, English, Hindi.

### References:

- **Japatosh Mondal**  
Assistant professor, EEE Department, BSMRSTU.  
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- **Shihab Ahammed**  
Assistant Professor, EEE Department, BSMRSTU  
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