



# BIJOY BHOWMICK

UNDERGRADUATE STUDENT, DEDICATED LEARNER

## PROFILE

A motivated and detail-driven Electrical and Electronic Engineering undergraduate at RUET with a solid grounding in circuit design, signal processing, and applied machine learning. Proficient in Python and key data science libraries such as NumPy, Pandas, and TensorFlow. Demonstrates strong analytical skills, research experience, and teamwork abilities. Committed to delivering innovative, data-driven solutions to complex engineering and real-world challenges.

## CONTACT

+8801627615370

bijoy2003bhowmick@gmail.com

<https://bjoy130.github.io/bijoy-portfolio/>

Talaimari , RUET , Rajshahi 6204

## SKILLS

### Programming Languages:

- Python
- MATLAB

### Circuit Design & Simulation:

- Microwind 3.0
- EAGLE
- Wondershare EdrawMax

### Machine Learning & Deep Learning:

- Data preprocessing, model building, evaluation
- Familiar with CNN, DNN architectures

### Tools & Software:

- Arduino (basic projects and sensors integration)
- Microsoft Office (Word, Excel, PowerPoint)

### Soft Skills:

- Team collaboration and leadership
- Technical communication and documentation

## LANGUAGES

- English (Intermediate)
- Bangla (Fluent)
- Hindi (Basics)

## EDUCATION

### ■ B.Sc. in Electrical and Electronic Engineering

*Rajshahi University of Engineering & Technology (RUET), Rajshahi*  
CGPA: 3.48

### ■ Higher Secondary Certificate (HSC)

*Government Science College, Dhaka*  
Board: Dhaka | Year: 2021 | GPA: 5.00

### ■ Secondary School Certificate (SSC)

*Sristy Academic School, Tangail*  
Board: Dhaka | Year: 2019 | GPA: 5.00

## WORK EXPERIENCE

### ■ IEEE RUET STUDENT BRANCH

FEB 2024 - PRESENT

*Graphic Designer & Executive Committee Member*

- Supported event planning and promotion for IEEE programs.
- Designed graphics for outreach and internal use.
- Collaborated on IEEE Day, SP Cup, and key initiatives.

### ■ Semi-Finalist – Hult Prize 2023 On-Campus Round

- Developed a social enterprise idea aligned with the UN SDGs.
- Presented to judges, highlighting innovation, collaboration, and entrepreneurship.

## PROJECTS

- Arduino Based Temperature and Humidity Analysis with DHT11 Sensor
- Design and Implementation of an Autonomous IR-Guided Line Follower Robot Using Arduino for Intelligent Line Tracking Applications
- Implementation of Bluetooth and Voice-Controlled Home Automation System using HC-05 and Arduino
- LightSpeak: Arduino-Based Visual Morse Code Transmitter and Receiver