SHUBHAJIT RANA

+91 9382648011 ◇ Kolkata, India

shubhajitrana1503@gmail.com ◇ LinkedIn ◇ GitHub ◇ Portfolio

OBJECTIVES

I'm 3rd Year Electrical Engineering undergrad at National Institute of Technology Agartala. My goal is to build my career in the field of electrical engineering where I can apply my technical skills, innovative mindset, and the theoretical knowledge gained in coursework to real-world applications.

EDUCATION

Bachelor of Technology in Electrical Engineering — Expected 2025
National Institute of Technology Agartala — CGPA: 8.64

12th Grade in PCMB — 2021
Nayabasan JanaKalyan Vidyapith-H.S. (**WBCHSE**) — Percentage: 90.20

10th Grade — 2019
Nayabasan JanaKalyan Vidyapith-H.S. (**WBBSE**) — Percentage: 90.29

SUBJECTS

- Digital Electronics
- Analog Electronics
- Control System
- Power System
- Power Electronics
- Electrical Machines
- Digital Signal Processing
- Industrial Instrumentation
- Principle of Communication

PROJECTS

- **Automatic Street Light Controller** — Link- Details
  I have successfully designed and implemented an automatic street light controller circuit using a combination of an LDR and transistors. This system efficiently turns off the street lights during the daytime when natural light is available and automatically switches them on at night, ensuring energy savings and a more eco-friendly lighting solution.
  The circuit is designed to detect changes in ambient light levels using the LDR, which acts as a light sensor.

- **Smartphone Controlled LED ON/OFF** — Link- Details , GitHub
  Using an Arduino and an HC-05 Bluetooth module, I built a circuit that enables remote control of an LED via a smartphone app. This project serves as a fundamental component of a larger home automation system. By establishing a Bluetooth connection between the smartphone and the Arduino, users can conveniently turn the LED on and off using a simple app.
  I also built the Android app using Android Studio, Java, and XML to interact with the Arduino using Bluetooth communication.

SKILLS

Technical Skills	Excel, PowerPoint, Ms-Word, Matlab(Beginner), TinkerCad, Arduino, LabView
Language	Bengali, English, Hindi
Soft Skills	Communication, Presentation, Problem Solving

EXPERIENCE

- Completed Winter Training in **WBSEDCL** (**West Bengal State Electricity Distribution Company Limited**), Jhargram Division, WB.

ACHIEVEMENTS

- Selected for **JBNSTS** Junior Scholarship Award, 2019
- Selected in "Yubo Biggan Mela, 2019" model competition at State Level, West Bengal
- Qualified NMMSE in 2016

EXTRA-CURRICULAR ACTIVITIES

- **PIXEL-Photo-Graphics Club** — March'23 - Present
  Photography Lead at Pixels-Photo-Graphics Club NIT Agartala. Actively participate in capturing all the events conducted in college.