

SOUPARNA KUNDU

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EDUCATION

Jadavpur University Kolkata, West Bengal
Bachelor of Engineering (B.E.), Electronics and Tele-Communication Engineering **2023 – 2027**

- Relevant Coursework: Digital Logic Circuits, Signals and Systems, Computer Architecture, Analog Electronics.
- SGPA: 8.324/10.0 (Up to 5th Semester)

Kenduadihi High School Bankura, West Bengal
Higher Secondary (Class XII), PCMB Stream **2022**

- Percentage: **89.2%**

Kenduadihi High School Bankura, West Bengal
Secondary (Class X) **2020**

- Percentage: **95.3%**

TECHNICAL SKILLS

Languages	C, C++, Python
HDLs	Verilog
Software & Tools	Vivado, LabVIEW, MATLAB, Falstad Circuit Simulator, MS Office
Core Concepts	Digital Logic Design, Computer Architecture, Analog Circuits, Data Structures & Algorithms

PROJECTS

- **Automobile Dashboard Simulation using LabVIEW** [🌐 GitHub Link](#)
 - Developed a virtual instrument (VI) to simulate and monitor key automobile parameters including speed, fuel level, and consumption with real-time graphical displays.
 - Implemented interactive controls for an accelerator and refueling, creating a realistic user interface for data visualization.
- **Digital Logic Design with Verilog**
 - Designed and simulated various digital circuits including combinational (adders, MUX) and sequential (counters, FSMs) logic in Vivado as part of coursework.
 - Solved and verified over **80 problems** on [HDLBits](#), gaining proficiency in Verilog and digital design principles.
- **Bubble Sort Algorithm Visualization in LabVIEW** [🌐 GitHub Link](#)
 - Created a VI to visually demonstrate the step-by-step process of the Bubble Sort algorithm on a user-defined array.
- **Digital Basic Circuit Simulations** [🌐 GitHub Link](#)
 - Designed and simulated the simple circuits, including the Control Unit and Data Unit, using Falstad Circuit Simulator.
 - Implemented basic logic for register files, and data buses to demonstrate instruction fetching and execution concepts from Control Unit.

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

- **Event Lead, Jadavpur University Games Society (JUGS)** *April-2025*
 - Led a team of five members to successfully organize eFootball gaming event.
 - Coordinated event planning, promotion, and on-site management to ensure a smooth execution attracting over 100 participants.

- **Team Member, Line Follower Robot Competition** *University Level*
 - Collaborated within a team to design and build an autonomous line-following robot for a university competition.
 - Gained practical experience with IR sensors, microcontrollers (e.g., Arduino), and motor driver circuits.

ACHIEVEMENTS

- Secured a **General Merit Rank (GMR) of 323** in the West Bengal Joint Entrance Examination (WBJEE 2023).
- Qualified the **KVPY-SX 2021-22** examination (Extended List) with an **All India Rank of 2860**.