

Ayush Shukla

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Education

B.Tech, Indian Institute of Information Technology Nagpur
Electronics and Communication Engineering

2021-2025
CGPA: 7.8

Relevant Coursework

- **Languages:** Matlab, Python, C++, Java, C, Verilog, VHDL.
- **Other Tools:** Keil, Arduino IDE, PyCharm, Quartus Prime
- **Core:** CMOS, Embedded System, Data Structures and Algorithms, Antenna design, Digital Electronics.

Projects

Car Parking System

- Develop a Verilog-based car parking system with entrance and exit sensors. Implement a secure password mechanism at the entrance gate, allowing access only upon correct password input for enhanced security.
- Integrate logic to manage gate status, ensuring that when a car enters, the gate locks until the first car exits and the system resets for the subsequent vehicle's entry authentication.

Temperature Detector

- Utilize an Arduino Uno board with a temperature sensor DS18B20. Connect the sensor to the board, program it to read data, and display the temperature on an LCD screen.
- Employ a breadboard, jumper wires, and a 16x2 LCD. Also wrote a code to acquire temperature data from the sensor and showcase it on the LCD for a functional temperature detection system.

Water Overflow Alarm

- Construct a water level detector circuit using IC 555 timer, float sensors, and transistors. When water reaches a certain level, the 555 timer triggers an alarm for tank full indication.

Achievements

- Secured victory in the GPT 3.5 Solvathon 2023, hosted by IIITN during Tantrafiesta, by contributing to the development of a Mental Health Counseling Bot within a team.

Position of Responsibility

- **Management Coordinator:** Managed the technical fest named TantraFiesta 2k22 at our college, overseeing the seamless coordination of logistics, performances, and engagement to create a dynamic and memorable event.
- **Training and Placement Cell Coordinator:** Developed relationships with partner firms, overseen college profiles, and broadened the network through cooperation with team members and partners.