Yash Chakerverti

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🌐 Portfolio

Education

B.Tech in ECE (AKTU)	**Nov 2022 – July 2026**
ABES Engineering College	*CGPA-7.0*
Class 12th (CBSE)	**2022**
Ch. Chhabil Dass Public School	*76.2%*
Class 10th (CBSE)	**2020**
Ch. Chhabil Dass Public School	*92.6%*

Technical Skills

Developer Tools: Arduino IDE, BLYNK IOT, Firebase, MATLAB, Proteus, LT Spice

Skills: Embedded Programming and Firmware (ESP32, Arduino Uno, Raspberry Pi), Hardware Integration, Circuit Simulation and Debugging

Internships

Humble Bee @ Buzzworthy   **March 2025 – May 2025**

Embedded Intern   *Hybrid*

- Developed and maintained firmware for InHive sensor and gateway systems, including audio capture, transmission, modem control, and bug resolution
- Engineered Raspberry Pi logic for timed video capture; collaborated on firmware integration for next-gen embedded hardware

Sphere.ai   **Feb 2025 – March 2025**

IoT and Hardware Developer Intern   *Hybrid*

- Integrated memory systems, microphones, and speakers with ESP32
- Debugged complex hardware-software interactions

lvlAlpha Private Limited   **Dec 2023 – Feb 2024**

EEE System Design Associate   *Remote*

- Assisted in TTMS Tool and Asset Tracking system Preliminary Technical Documentation
- Worked on the New Product Development - "Arch Eon and Had Eon" Wearable Health Monitors
- Built Vendor Management and Development for lvlAlpha Manufacturing Process

Projects

ARDUMIST (Portable Humidifier)   **May 2024**

- Developed a portable humidifier using an Arduino UNO microcontroller to maintain room humidity levels above 75%
- Integrated a DHT sensor for real-time humidity monitoring and an ultrasonic vibration mechanism for water spray

Weather Monitor   **Jan 2024**

- Designed an IoT weather station that monitors room temperature and humidity using precision sensors
- Utilized Blynk IoT platform to stream data to a mobile app

Automatic Plant Irrigation System   **Feb 2024**

- Developed an automated irrigation system using Arduino to measure soil moisture via analog sensors
- Implemented threshold-based algorithms to trigger a water pump when soil moisture drops below set level

Achievement

GATE 2025

Qualified in Electronics & Communication

Extracurricular

Light De Literacy (NGO Initiative)   **Dec 2022 – Present**

Camp Coordinator

- Educating 50+ underprivileged students in slum areas on STEM subjects, emphasizing basic electronics.

Unstop Igniters Club   **Oct 2023 – Oct 2024**

Technical Member

- Organized events such as WEB BATTLE, showcasing technical challenges and electronics projects.