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 & Firmware, Hardware Integration, C language, Circuit simulation

Internships

Humble Bee @ Buzzworthy **March 2025 – Present**
Embedded Intern *Hybrid*
- Developing real-time signal processing solutions using ESP32 for embedded applications
- Implementing audio signal acquisition and preprocessing using ADC and filtering techniques

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.