Yash Chakerverti

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Education

ABES Engineering College (AKTU) **Nov 2022 – July 2026**
Bachelor of Technology in Electronics and Communication

Technical Skills

Developer Tools: Arduino IDE, BLYNK IOT, Firebase, MATLAB, Proteus, LT Spice
Skills: Embedded Programming & Firmware, Hardware Integration, C language, Circuit simulation

Experience

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 and temperature monitoring and an ultrasonic vibration mechanism to control water spray.

Weather Monitor **Jan 2024**
- Designed and deployed an IoT weather station that continuously monitors room temperature and humidity using precision sensors.
- Utilized the Blynk IoT platform to stream live data to a mobile application, with Firebase as the backend for real-time data storage and synchronization.

Automatic Plant Irrigation System **Feb 2024**
- Developed an automated irrigation system using an Arduino-based control board to continuously measure soil moisture via analog sensors.
- Implemented threshold-based control algorithms in the Arduino IDE to trigger a water pump when soil moisture drops below a set level.

Achievements

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 principles and practical applications.

Unstop Igniters Club **Oct 2023 – Oct 2024**
Technical Member
- Organized events such as WEB BATTLE (The Clash of Web), showcasing technical challenges and projects related to electronics and embedded systems.