

SACHIN GUPTA

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Education

KIET Group of Institutions

Bachelor of Technology in Electronics and Communication; CGPA: 7.1/10

Ghaziabad, India

Oct 2022 – Present

Khanaiya Public School

Intermediate (12th Grade) Percentage: 70.1%

Jalaun, India

2021 – 2022

Projects

Pollution to Production | Arduino, IR Sensor, Gas Sensor, Embedded C

Ongoing

- Developed an advanced air filtration system that captures pollutants and converts them into ink.
- Implemented real-time monitoring for pollution detection and filtration analysis.
- Built a hardware system using Arduino, an air filter, and IR sensor to convert pollutants into ink.

Sleep Apnea Detection Device | Arduino, IR Sensor, Piezoelectric Sensor, Embedded C

Nov 2024

- Designed a wearable device that detects interrupted breathing patterns during sleep.
- Utilized IR sensors to monitor chest movement and trigger buzzer alerts upon apnea events.
- Improved early apnea detection and user safety through real-time alerts.

Position of Responsibility

Cyber Peace Centre (CPC)

Core Member

Ghaziabad, India

May 2022 – Present

- Organized Linux events and skill development workshops.
- Conducted seminars for 200+ members to promote technical growth and industry readiness.
- Led networking initiatives for efficient communication and collaboration.

KIET Group of Institutions

Student Placement Coordinator (SPC)

Ghaziabad, India

Aug 2023 – Present

- Coordinated placement activities between students and the training placement cell.
- Facilitated mock interviews, pre-placement talks, and placement drives.

Technical Skills

Embedded & Electronics: Microcontrollers (Arduino, ESP32, Raspberry Pi), Communication Protocols

Programming: C, C++, Embedded C

Tools & Platforms: Arduino IDE, Node-RED, InfluxDB, Grafana, Mosquitto MQTT Broker

Certifications

Medical Device Hackathon (MEDHA) Participant: Under the mentorship of BETIC, IIT Bombay, 2024

Problem Solving, Aptitude, and Soft Skills Training: Skill Development and Finishing School (SDFS), 2024

InnoTech Participation Certificate: Institute Level Competition, 2023–2024

SCROLLS'24 National Technical Presentation Contest Participant: National Level Event, 2024

CySEC 1.0 Participation Certificate: Cyber Peace Centre (CPC), Sep 2023

Achievements

Pollution to Production: Built a pollution-to-ink prototype; selected for patent filing.

Innotech-2024: Runner-up in institute-level innovation competition.

Sleep Apnea Device: Created a wearable to detect and alert apnea events.