ARMAN HANIF

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About Me

Versatile and proactive Electronics Engineer with a solid foundation in programming, hardware design, and analytical problem-solving. Proficient in Python, C/C++, and Java, with practical experience in developing microcontroller-based systems and thriving in collaborative, team-oriented environments. Adaptable and quick to learn, with a passion for leveraging engineering technologies to build impactful, real-world solutions. Known for combining creativity, curiosity, and strong technical acumen to contribute meaningfully to innovative and forward-thinking teams.

Education

- Vellore Institute of Technology (VIT), Bhopal Bachelor of Technology in Electronics and Communication Engineering
  Expected Graduation: 2027
  CGPA: 8.26 /10
- Kendriya Vidyalaya, Kirandul
  Senior Secondary (Class XII), CBSE Board
  Year of Completion: 2022

Skills

- Embedded Systems
- Sensor Integration
- C/C++ Programming
- Microcontroller Programming
- Python Programming
- MATLAB Programming
- Teamwork and Communication
- Problem-Solving
- Cloud Platforms (e.g., Blynk)

Projects

Heart Abnormality Detection System

- Technologies: ESP32, AD8232; Machine Learning
- Designed and implemented a heart monitoring system using ESP32 and AD8232 sensor to acquire and process ECG signals.
- Leveraged machine learning algorithms to analyze ECG data and predict potential heart abnormalities, providing real-time health monitoring and insights.

EV Battery Monitoring System

- Technologies: ESP32, Temperature Sensor
- Developed an IoT-based solution using ESP32 to monitor critical parameters, including temperature and smoke levels, for electric vehicle batteries.
- Engineered an alert system to notify users of high-temperature or smoke detection, minimizing risks and enabling proactive maintenance.

GITHUB: https://github.com/ArmanHanif/BTMS

Certifications

- MATLAB Online Certification (Completed in January 2025)
- Java Course - Mastering the Fundamentals - (Completed in 16 December 2024)
- Image Processing with MATLAB(Completed in 5 April 2025)

Technical Proficiency

- Languages: MATLAB, Java, Python, C/C++
- Tools & IDEs: Simulink, Arduino IDE, VS Code, Git
- Hardware Platforms: ESP32, Raspberry Pi, AD8232 ECG Sensor
- Cloud & IoT Platforms: Blynk, Firebase