



AMIR P.ADAM

ECE UNDERGRAD

PROFILE

Aspiring Embedded Software and IoT Engineering student with a strong foundation in programming, electronics, and system design. Experienced in building innovative projects like IoT Weather Monitoring Systems, obstacle-avoiding robots, and gesture-based control systems. Familiar with Python, C and C++; proficient in foundational concepts and actively improving advanced skills through projects and coursework., with hands-on expertise in embedded platforms such as Raspberry Pi, ESP32, and Arduino. Passionate about leveraging technology to solve real-world problems.

PROJECTS & EXPERIENCE

Budget Tracker App (React Native, Firebase)

- Developed a personal finance app using React Native with AI-assisted optimization.
- Implemented state management, authentication, and data storage using Firebase.

Computer Vision with Arduino (OpenCV, Arduino, Python)

- Created a vision-based control system to manage output devices via Arduino.
- Used OpenCV for image processing and optimized performance for real-time response.

AI Assistant for Home Automation (ESP32, Pyserial, AI/ML)

- Developed an AI-powered assistant using Python, Pyserial and ESP32 for smart home automation.
- Implemented voice control and IoT-based automation with real-time processing.

Wireless Sensor Network using LoRa (IoT, Embedded Systems)

- Built a low-power, long-range wireless sensor network using LoRa for efficient data transmission.
- Integrated sensors with microcontrollers for real-time environmental monitoring.

CERTIFICATIONS & INTERNSHIPS

- HTML & CSS Fundamentals issued by Meta
- User Experience (UX) Design issued by Google
- Machine Learning Internship at Pantech Solutions
- Internet of Things (IoT) Internships at Pantech E-Learning

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EDUCATION

2022 - 2026

CHANDIGARH UNIVERSITY

- BE ELECTRONICS AND COMMUNICATIONS
- CGPA: 7.84/10

2017 - 2020

LOYOLA SECONDARY SCHOOL

- GENERAL SCIENCES: MATHS, PHYSICS, CHEMISTRY.
- GRADE: 85.1%

SKILLS

- React Native Mobile App development
- UI Design
- Embedded System Programming
- Sensor Integration with IoT
- Experienced with HTML, CSS, Python, C/C++ and Javascript
- Problem Solving
- Adaptability

LANGUAGES

- English (Fluent)
- Arabic (Intermediate)