AMIR PHILIP ADAM

ECE UNDERGRAD

PROFILE SUMMARY

CONTACT

- +919878036979
- amirphiladam@gmail.com
- Mohali, India
- www.amirp.netlify.app

PROJECTS

Budget Tracker App (React Native, Firebase)

Tech Stack:React Native +Expo,Firebase Auth,Async Storage

coursework, personal projects, and practical experimentation.

- Built a secure login/signup flow with Firebase authentication.
- Designed modular components for income/expense entry, history logs, data analytics and budget tracking.

Embedded Systems and IoT Engineering student with hands-on experience

in C/C++, Python, and platforms like ESP32, Raspberry Pi, and Arduino. Solid

foundation in electronics and system design., Also experienced in React Native app development, with a separate interest in mobile interfaces and

cross-platform software. Continuously expanding my technical skills through

• Stored and retrieved real-time data using Async Storage.

Wireless Sensor Network using LoRa (IoT, Embedded Systems) Tech Stack:ESP32,LoRA

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

End-to-End IoT Pipeline: ESP32 to Raspberry Pi Web Server Tech Stack: ESP32, Raspberry Pi, Flask, HTTP, DHT11

- Built an end-to-end IoT pipeline where ESP32 collected sensor data (temperature, humidity).
- Transmitted data using HTTP POST to a Flask server hosted on Raspberry Pi.
- Visualized real-time data via a custom web dashboard using HTML+CSS.
- Ensured consistent data flow with retry logic and minimal latency.

EDUCATION

2022 - Present CHANDIGARH UNIVERSITY

- BE Electronics & Communications
- CGPA: 7.8 / 10

2017 - 2020 LOYOLA SECONDARY SCHOOL

General Sciences

SKILLS

- Embedded Systems: ESP32, Arduino, STM32, UART, SPI, I2C, PWM
- IoT & Communication: MQTT, HTTP, Flask
- Mobile Development: React Native, Firebase Auth, Expo CLI, React Navigation
- Tools & DevOps: Git, VSCode, STM32CubeIDE, Figma (UI Design), PlatformIO
- Programming: C/C++, Python, JavaScript(Fundamentals)

LANGUAGES

- English: Fluent
- Arabic: intermediate

CERTIFICATIONS

- HTML & CSS Fundamentals Meta (Coursera), 2025
- UX Design Google (Coursera), 2025
- ESD ARM Cortex M4 Pantech Solutions, 2023