

# Belal Mohamed

■ notch.bugs@gmail.com | ■ 01010788145 – 01095550296 | ■ Egypt

## Summary

Flutter Developer with 1 year of professional experience at ARMtronic, building cross-platform mobile applications with IoT integrations. Skilled in Flutter, Dart, Firebase, and local databases, with a passion for creating efficient, user-friendly apps. Experienced in connecting mobile apps with embedded hardware (ESP32, Arduino, load cells, sensors) for real-time solutions.

## Skills

**Mobile Development:** Flutter, Dart

**Backend & Databases:** Firebase, Hive, Supabase

**IoT & Hardware Integration:** Arduino, ESP32, Bluetooth, REST APIs

**Other Tools:** Git, Python (automation), C++ (microcontrollers)

## Experience

### Flutter Developer – ARMtronic (2024 – 2025)

- Designed and maintained mobile apps for clients and internal projects.
- Built apps that integrated with IoT devices (load cells, sensors, ESP32) via Bluetooth.
- Developed user authentication, data storage (Firebase/Hive), and real-time notifications.
- Worked closely with hardware engineers to deliver production-ready mobile solutions.

## Projects

**Smart Weight Monitoring App** – Flutter app connected to ESP32 load cells via Bluetooth, with real-time alerts when weight drops below threshold.

**Smart Scale System** – Mobile + IoT integration that tracks object weight, syncs with app, and provides alerts when limits are reached.

**Medical Records App (MediChain)** – Flutter app with Supabase backend for storing patient history, QR-code-based doctor access, and blockchain integration for secure medical data.

**Arabic Sign Language Recognition System** – Integrated MPU6050 + flex sensors with Arduino, processed signals to recognize Arabic letters.

(More projects available on request.)

## Nationality

Egyptian