Ibrahim Tharwat

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Professional Summary

- Flutter Developer with hands-on experience building mobile applications using Flutter and Dart
- Communications & Electronics Engineering student with industrial automation training in PLC programming and control systems
- Built multiple projects including monitoring systems, IoT controllers, and mobile apps with features like real-time updates and user-friendly interfaces
- Familiar with Firebase, state management (Bloc/Cubit, GetX), and REST APIs integration

Education

Bachelor of Engineering in Communications and Electronics *Expected 2025*
Zagazig University, Zagazig, Egypt 2020 - 2025

Industrial Training & Certifications

HA Consulting Group for Automation Solutions *2025*

- **PLC Basic Programming** - 3 weeks intensive training (Aug - Sep 2025) — Grade: Excellent
- **Electric Motor & Drive Programming** - 2 weeks (Sep 2025) — Grade: Excellent
- **Classic Control Systems** - 3 weeks (Jul - Aug 2025) — Grade: Excellent

Technical Skills

Mobile Development	Flutter, Dart, Android Studio, VS Code, Git, GitHub
State Management	Bloc/Cubit, GetX
Backend & APIs	REST APIs, Dio package, Firebase (Auth, Firestore, Storage), MQTT
Local Storage	Hive, SharedPreferences
Hardware Integration	Bluetooth Serial, MQTT Client
Industrial Training	PLC Programming (Ladder Logic), Electric Motor Control, Control Systems
UI Development	Responsive layouts, Custom widgets, Material Design
Languages	Arabic (Native), English (Good)

Professional Experience

Flutter Developer - Freelance Projects *Jan 2022 - Present*

- Built mobile applications using Flutter with focus on clean code and user experience
- Created monitoring system with MQTT for real-time data display from sensors and pumps
- Developed Bluetooth car controller app for sending commands and managing connections
- Implemented Firebase Authentication, Firestore database, and Cloud Storage in projects
- Used Bloc/Cubit and Provider for state management across different apps
- Designed responsive UIs that work on mobile phones and tablets
- Published app on Google Play Store with regular updates based on user feedback

Key Projects

— October SCADA - Station Monitoring App *Nov 2024 - Present*

- Mobile app for monitoring water pumping stations with real-time data from sensors
- Used MQTT client to receive data about pumps, valves, tank levels, and pressure
- Built responsive UI that works on phones and tablets with animated water tank displays
- Implemented Riverpod for state management and flutter_screenutil for responsive design
- Added weather information and gauges to show flow and pressure readings
- Technologies: Flutter, MQTT Client, Riverpod, Responsive UI

Auto Car Controller - Bluetooth IoT App *Oct 2024*

- Bluetooth app to control Arduino-based car with manual and automatic modes

- Implemented Bluetooth scanning, pairing, and connection with auto-reconnect feature
- Created control interface with buttons for directions and slider for speed control
- Built status screen showing connection info and last sent commands
- Used Provider for state management and SharedPreferences to save device info
- Technologies: Flutter, Bluetooth Serial, Provider, SharedPreferences

3SA - Autism Support App   *May - Jun 2024*

- Educational app to help autistic children learn communication and behavior skills
- Made interactive lessons with animations, sounds, and visual feedback
- Used GetX for state management and navigation between lessons
- Added multimedia content (images, videos, audio) that loads based on progress
- Technologies: Flutter, GetX, Custom Animations, Media Players

Fitness App - Workout Tracker   *Oct - Nov 2024*

- App for tracking workouts, meals, and body measurements
- Built features to log weight, create workout plans, and view progress with charts
- Used Clean Architecture pattern to organize code into layers
- Implemented Cubit for state management and Hive for local data storage
- Technologies: Flutter, Cubit, Clean Architecture, Hive, Charts

Bookify - Book Reading App   *Aug - Sep 2024*

- Book reading app with bookmarks, light/dark themes, and reading reading history
- Designed simple UI with easy navigation and comfortable reading experience
- Used Hive to save books locally for offline reading
- Technologies: Flutter, GetX, Hive, Custom Widgets

Paqyat - Islamic Content App   *May - Aug 2022*

- Published app on Google Play for Quran, Azkar, prayer times, and Islamic media
- Added Arabic support with RTL layout and multiple theme colors
- Used Firebase Storage to host and deliver audio/video content
- Technologies: Flutter, Firebase Storage, Media Players

Continuous Learning

- **The Complete Dart Learning Guide** - Udemy
- **Flutter & Dart Development Course [Arabic]** - Udemy
- **The Complete Flutter Development Guide** - Udemy