

Abdelmenam Tarek Abdelmenam

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🎓 EDUCATION

2018 - 2023 **Electrical engineering**, Alexandria university
• Major: Communication and Electronics. - GPA: 3.67 out 4 .

💼 PROFESSIONAL EXPERIENCE

present **Robotics Instructor**
Robotics and Arduino instructor in different academies

present **Mobile Developer**, OrecaTech [🔗](#)
Flutter developer at OrecaTech startup for smart home and smart agriculture solutions.

Jul 2022 - Sep 2022 **Intern**, EgSa
2 months project based internship at Egypt space agency .
Our project was CubeSat [🔗](#) and we got the **first rank**

Jul 2021 - Dec 2021 **Intern**, EME-IH Borg
intern at EME project-based internship program IOT track with project Cloud attendance registration system [🔗](#).

Aug 2020 - Sep 2020 **Trainee**, Alexandria electricity distribution company [🔗](#)
• Learned basic of electronics component and implement a PCB relay module as a project.
• Practiced PLC and achieved final project in a team.

🏠 ORGANIZATIONS

Dec 2021 - present **EME-IH Borg**, Ambassador
head of ambassador at 2022 session
member at content and documentation team for 2021 session

May 2022 - Oct 2022 **Semicolon Project**, Technical member
Embedded mentor at Semicolon project organized by SAFWA team

📁 PROJECTS

CubeSat design and implementation, Team Leader
in team of 5 student we design and implement 1U CubeSat with 2 payloads
- Imaging
- Broadcasting
its composed of : (OBC - Payload , ADCS , EPS , Structure , CS and telemetry board)
All details on our **webpage** [🔗](#) and all technical details **here** [🔗](#)

Easy-Tag, EMEI-IH Borg events, courses and internships mobile Application [🔗](#)
I succeed to publish this application to google play console [🔗](#)
Using **Bloc** as a state management , **Firestore** for authentication and real time database , **FCM** to push notification using the FCM rest api , **DIO** to handle API's , **firebase crashlytics** to monitor any logs and **firebase storage** to save users files.
Students can record attendance through **QR** scan or **RFID** card .

Truck Scale,

Flutter Desktop Application to manage your weight bridge (ميزان بسكول) in smart and easy way. ☑

First i designed the UI using *figma* ☑ then using **ScreenUtil to make it responsive** , **BloC** as state management and **SQLITE** as local data base . Through this application you can manage , save , analysis and print all deals with the weight bridge.

Shop Inventory APP, Flutter Mobile Application that help any shop owner can use to manage all shop operations [buy and sells]. ☑

Using **Provider** as state management , **SQLITE** as local database to manage shop products, orders and entries. User can **import and export the database** to your file manager to share it with other mobile or for backup ,also you can generate **reports and csv files** for what you want.

I designed the UI of the app using *Figma* first ☑

Boards Counter,

Solution that helps swede electric to implement the technology of industrial 4.0 revolution ☑

The developed system hardware consists of an **ESP32** development board and **proximity sensor**. During operation, the ESP module acts as a **local server** that can be accessed using it's IP address within the internal network.

Car Ecommerce, Flutter mobile application to help you decide the best car to buy by seeing it's details or compare it with other cars ☑

Start with design the UI using *Figma* ☑ Then scrap more than 1500 car and 500 bicycle data using Python .

Using **Bloc** as state management , **Firestore authentication** , **firebase cloud** as cars database and **SQLFlite** to cache the data locally using .

Pharmacy delivery app, Application for pharmacy helping the customer to order drugs . ☑

Using **Cubit** as state management , **SupBase** as Cloud database we managed to make application that help customers to see all drugs data and prices then order it . then the pharmacy owner can see the order details and send it .



SKILLS

Programing background

Dart - JS - Python - C++ - MATLAB - C# - HTML - CSS

PCB programs

Altium - Easyeda - Eagle

and can use (Protous -Tinkercad - Multism) as simulation programs

Technical skills

- OOP and clean code.
- Apply Design pattern and architecture.
- Work with Google maps in flutter.
- Work with google app script .
- integrate hardware with Flutter to make IOT solutions.
- Git (Version Control)
- Good knowledge of Embedded systems
- Basics knowledge of networking



LANGUAGES

Arabic

Mother language

English

good at (speaking, writing, reading)



AWARDS

First Rank, Egyptian space agency

The first rank on EUTS program with our project **CubeSat design and implementation**

First rank (coach), CORC

I was coach for kids team and they won the first prize

Second rank (coach), Amazon competition

I was coach for kids team and they won the second prize

ibTIECar Metaverse ☑

We win ibTIECar Metaverse final prize with our startup OrecaTech