

# Youhana Emad Youhana

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## Objective

Dedicated Embedded Systems Programmer with expertise in C programming and a strong focus on developing and optimizing embedded software for next-generation Electric Vehicle (EV) chargers. Committed to delivering high-performance solutions through effective collaboration with cross functional teams and adherence to industry standards.

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## Education

Level 3, Communication Engineering

September 2022 – Present

Modern Academy, Cairo

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## Courses and training courses

### Web Design & Development Module (120 H)

November 1, 2024 – January 8, 2025

(NTI)

- **Introduction to Web Design:** Covering internet fundamentals, history, key principles, and modern tools.
- **HTML:** Structure, tags, forms, semantic HTML, and HTML5 features.
- **CSS:** Styling basics, selectors, layout techniques (Flexbox, Grid), effects, and responsive design using media queries and Bootstrap framework.
- **JavaScript:** Core syntax, DOM manipulation, event handling, objects, arrays, and ES6+ features for dynamic, interactive web pages.

### Full Embedded Systems Diploma (48 H)

September 1, 2024 – September 12, 2024

(Amit – Orange Digital Center)

Topics Covered:

- **Interfacing with AVR:** Computer Architecture, DIO Interfacing, LCD, Keypad, Interrupts, ADC, Timers, Communication Protocols.
- **Interfacing with ARM & RTOS:** Operating System Types, RTOS Concepts, Task Scheduling, ARM Architecture, Designing Component Interfaces.

## Innovation and Entrepreneurship (45 H)

August 14, 2024 – August 20, 2024

(InnovEgypt by ITIDA and TIEC)

Topics Covered:

- **Innovation and Technology Management:** Insights into the innovation process and its critical role in business success.
- **Idea Design:** Creative problem-solving techniques for idea generation.
- **Entrepreneurship:** Foundational concepts and essential tools for aspiring entrepreneurs, enhancing skills valuable to local and multinational companies.

## Full Embedded Systems Diploma (120 H)

November 2023 – May 2024

(Supervised by IEEE MASB)

Topics Covered:

- Basic Concepts of Embedded Systems.
- C Programming & Embedded C.
- Data Structures (Linked Lists, Stacks, Queues).
- AVR Microcontrollers introduction.
- Software Engineering & Embedded Tools.

## Tools

VS Code	Code Blocks	AI Tools
AVR Microcontrollers (e.g., ATmega series)	ARM Cortex-M Microcontrollers	Raspberry Pi 3
Figma	Canva	API (Json placeholder)

## Projects

- My CV Website
- Tradex – Corporate website for business presentation and services.
- Smart Sensor Automotive Car – Vehicle monitoring and automation system.
- Smart Fire System – Automated fire detection and alert mechanism.
- Traffic Light System using RTOS – RTOS implementation for traffic signal management.
- Calculator Project – Web-based calculator application.
- Weather Station – Real-time weather data collection and display.
- Rivo – Women’s fashion online store.