Contact Information:
- **Name:** Omar Khaled Abdelmoez Younis
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Professional Summary:

Motivated Frontend Developer with a solid foundation in HTML, CSS, Bootstrap, and computer science principles. Experienced in building responsive, user-friendly interfaces and translating design concepts into functional web pages. Skilled in C and C++ programming and recognized as an expert in embedded systems design, IoT applications, and automation solutions. Successfully led a multidisciplinary team on innovative projects, including a Smart Hospital System, showcasing adaptability, technical precision, and leadership. Dedicated to applying both frontend development expertise and deep engineering knowledge to create engaging, efficient, and high-quality applications.

Education:

Bachelor's degree of Mechatronics Engineering | Mansoura University | 2019 - 2024
- **GPA:** 3.01B

Graduation Project: Advancing Healthcare: A Comprehensive Smart Hospital System Integration | Jun 2024
- Led a multidisciplinary team focused on the development of embedded systems, mechanical design, clean energy solutions, HVAC system, IoT integration, and PCB design for a smart hospital system.
- Took full responsibility for the embedded systems and app development, ensuring seamless integration and optimized functionality of each system.
- Successfully implemented the Garage Gate Control System, Safety Monitoring System, Access Control System, Real-Time Communication System, Power and Voltage Control System, and Smart Login System.
- Achieved an A+ grade, demonstrating excellence in embedded systems, app development, leadership, and project management.

Work Experience:

Research and Development Engineer | Smart Technology | Mansoura | Feb 2025 – Mai 2025

- Monitored instructor performance, provided feedback reports, and supported continuous improvement in training delivery.
- Handled all technical operations at the branch, ensuring smooth functionality of lab equipment and student tools.
- Designed and implemented educational programs, assessments, and extracurricular activities aligned with the latest engineering trends.

IoT Application Developer | Information Technology Institute (ITI) | Cairo | Sep 2024

- Delivered practical demonstrations and technical insights on IoT system design, boosting lab efficiency and user understanding.
- Operated advanced IoT lab equipment, including SenseSigFox innovation kits and Minew BLE gateways, to enhance technical expertise in IoT systems.

Projects:

Responsive Web Designs (HTML & CSS) | Jul 2024
- Designed and developed three responsive website templates from scratch using HTML and CSS, focusing on clean layouts, semantic HTML, modern styling practices, and cross-device compatibility.

Autonomous Irrigation System | Mansoura University | Jan 2024
- Designed a microcontroller-based system to optimize water usage by autonomously monitoring soil humidity and controlling water pumps.

Smart Home 2 Integration with IOT Application | Mansoura University | Grade: A+ | Sep 2023 - Jan 2024
- Developed a Smart Home system with IoT integration, enabling remote control of lighting, security, and appliances through a mobile app. Automated home functions using sensors and actuators based on environmental conditions and user preferences.

.**Smart Home1 Project** | Mansoura University | Grade: A+ | Feb 2023 - Jun 2023
- Designed an automated Smart Home system enabling real-time control of lighting, temperature, gates, and security for enhanced efficiency and convenience.

Smart Parking System with Image Processing | Mansoura University | May 2023
- Created a parking system leveraging image processing to detect and display real-time availability of parking spaces.

Image Filtering and Enhancement Tool | Mansoura University | May 2023
- Engineered an image processing tool for noise reduction, sharpening, and contrast adjustment to improve visual quality.

Courses and Certification:

Complete Full Stack Web Development Bootcamp | Udemy | 61 hours | In-progress
- Learned end-to-end web development, covering HTML, CSS, Bootstrap, JavaScript, React, Node.js, Express, SQL, REST APIs, authentication, deployment, and Web3 concepts including blockchain, token contracts, and NFT integration.

Computer Science 101 | Udemy | 12 hours | Jun 2025 – Jul 2025
- Gained foundational knowledge in computer science concepts, including data structures, algorithms, program analysis, and complexity, with hands-on implementation of arrays, linked lists, stacks, queues, sorting algorithms, and binary trees.

Career Development track | National Telecommunication Institute (NTI) | 144 hours | In-progress
- Developed expertise in communication, leadership, negotiation, time management, business English, project management, and freelancing.

Embedded Systems Full Diploma | 144 hours | Jul 2022 - Dec 2023
- Mastered microcontroller programming (AVR), computer architecture, hardware interfacing, RTOS, software engineering principles, data structures, automotive communication protocols (CAN/LIN), and hands-on experience in embedded system design, development, and real-time application integration.

Image Processing at MATLAB | 2 hours | May 2023
- Applied image processing techniques using MATLAB, including enhancement, segmentation, feature extraction, and object recognition for edge detection and noise reduction.

C Programming and Hardware Design | 30 hours | Sep 2022 – Dec 2022
- Acquired in-depth knowledge of C programming fundamentals, hardware design, circuit design, and component selection for embedded systems.

Core Skills:

- Embedded Systems Development
- IoT Solutions & Applications
- Hardware Interfacing & Circuit Design
- Real-Time Operating Systems (RTOS)
- Microcontrollers (PIC, AVR, Arduino)
- Communications (SPI,UART,I2C,CAN/LIN)
- Testing & Debugging with Logic Analyzers
- MATLAB & Image Processing
- Experienced in HTML5 , CSS3 & Bootstrap5

- Data Structures & Algorithms
- Skilled in Responsive Web Design
- Proficient in C/C++
- Project Management
- Freelancing Proficiency
- Business English Proficiency
- Communication & Leadership
- Negotiation & Time Management
- Problem Solving& Analytical Thinking

Events:

- **Judge at Plaza Competition** | Starks MU Team | Apr 2025
- **ITIDA Employment Fair** | Sep 2024
- **TechFury Event** | Luminous MU Team | Apr 2024
- **Valeo** | Tech Bites | Mar 2024
- **Hackathon 5.0** | Feb | 2023

Languages:

Arabic : Native   **English** : B2   **German**: A2

References:

References are available upon request.