

Fares Rabie Edres

Software Engineer

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EXPERIENCE

Software Engineer Trainee

Oct. 2024 – Present

Information Technology Institute

- developing applications using open source technologies and frameworks.

IT Support

Jan. 2023 – Feb. 2024

Egyptian Armed Forces

- Managed and administered Windows Server, including user management, system updates, and resource allocation.
- Oversaw the internal network, ensuring reliable connectivity and troubleshooting issues
- Conducted both hardware and software repairs on computers to maintain operational efficiency

Embedded Software Instructor

Sep 2022 – Dec 2022

Sprints

- Reviewed and provided feedback on student projects to ensure adherence to best practices
- Assisted students in overcoming challenges and gaps in their understanding of embedded systems
- Led meetings to guide students on efficiently completing their projects, offering technical and strategic advice

PROJECTS

Smart Air Quality Monitoring and Controlling System

- Developed a system utilizing C and Arduino for monitoring and filtering air pollutants, and employed Raspberry Pi with Python for predicting air quality and sending email notifications to users.

Mini Math Engine

- Leveraged C++, CMake, and Google Test to implement a comprehensive test plan, ensuring the accuracy of comparison operations and basic calculations

On-Demand Traffic Light Control

- Prioritized pedestrian safety by leveraging C for programming and Proteus for simulation, using interrupts for immediate crossing and timer-controlled sequences for optimal traffic flow

EDUCATION

University of Greenwich

Sep. 2020 – Jul 2022

Bachelor of Science in Electrical, Communication and Electronics Engineering

Second Class Honours, 1st Division

MSA University

Sep. 2017 – Jul 2022

Bachelor's degree in Electrical, Communications and Electronics Engineering

GPA: 3.23

CERTIFICATES

Mastering Object-Oriented Programming

Oct 2024

Maharatech

Database Fundamentals

Oct 2024

Maharatech

Embedded Systems Professional

Aug 2022

Udacity

Embedded Systems

Nov 2021

AMIT

Artificial Intelligence Analyst

Oct 2020

IBM

Embedded Electronics Systems Design

Jul 2019

Electronics Research Institute

TECHNICAL SKILLS

Languages: C, C++, java, SQL, HTML, CSS

Developer Tools: VS Code, Eclipse, Git, Microchip Studio, Proteus