

Yosef Ahmed Mohamed Abd Al-Fattah Zaher

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Military Status: Postponed



Summary

A third-year Computer Engineering student with a solid foundation in Software Engineering and a deep interest in Problem Solving. Currently focusing on expanding my knowledge in Cloud Computing and DevOps through continuous learning and technical practice. Committed to personal and professional growth in the technology field.

Education

(B.S.) Faculty of Engineering, Computer and Systems Engineering, Mansoura University 2022 - 2027

- Cumulative Grade: 84.03% (**Very Good**)

Skills

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|-------------------|------------------------|-------------------|
| • Python | • Linux Administration | • Git & GitHub |
| • C/C++ | • Embedded C | • Shell Scripting |
| • OOP | • CCNA | • Microcontroller |
| • Algorithms | • HTML | Interfacing |
| • Data Structures | • CSS | |
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Experience

- Cloud Architect Trainee in National Telecommunication Institute (NTI)** July 2025 – present
- Programming Foundations Track**
Hands on Courses in [Al-madrassa Platform](#) & [Cloud Base Native Camp](#)
 - Completed a Programming Foundations track including Python, OOP, Data Structures & Algorithms, Git/GitHub, and Web Basics (HTML & CSS).
- Technical Director in Mansoura Robotics Club** Mars 2024 - present
 - Lead the club's technical strategy by managing cross-functional teams (Hardware, Mechanical, and Software), planning training roadmaps, and setting the vision for team projects and innovation.
- Embedded Systems Member in Mansoura Robotics Club** July 2024 – Mars 2025
 - Embedded Systems Training Under Supervision of Eng. [Amgad Samir](#)**
 - Covered: C Programming, Embedded Systems Concepts, Embedded C, Device Drivers (GPIO, ADC, Interrupts), Intro to Embedded Linux
 - Training of Trainers (TOT)**

- Completed a 6-session TOT program covering how to prepare and deliver effective technical presentations. Learned content planning, delivery techniques, and audience engagement. Applied the training through real presentations and hands-on content preparation.

3. Embedded Instructor in Hackathon 7.0

- Taught and led 3 technical sessions on GPIO, Motor Driver circuits, and IR sensors. Supervised students in building a Line Follower Robot as a practical implementation of the concepts.

- **Logistics Team Supervisor in CAT Reloaded**

December 2023 – November 2024

- Led logistics planning for internal media camp and “SCOPE 24” tech event, handling session coordination, scheduling, and on-ground execution. Gained hands-on experience in event planning, logistics management, and team coordination through dedicated training and practical involvement.

Projects

- **Expenses Tracker Desktop Application**



- Developed an expense management system using Python (Tkinter, SQLite3, Requests) with features like tracking, updating, deletion, and currency conversion via an API.

- **Contact Management System**



- Developed a C-based linked list system with layer-based design for contact management, ensuring input validation & error handling.

- **Smart Home System**



- Built a home automation system using AVR microcontroller, integrating Keypad, LCD, LEDs, DC motors, Temperature Sensor, LDR, and Buzzer for security & automation.

- **VertechX – Climate Tech Innovation**



- Developed a Web Application to control a Vertical Farming hydroponic system, using Python (Flask & Fast API) with SQLite & SQL Alchemy, integrated with Raspberry Pi for automated & manual control. The system reduces water usage by 90% and boosts productivity 6-8x over traditional farming.

Awards & Certifications

- **YLF Climate Leaders 2**

January 2025

- Secured 1st place out of 92 teams with the VertechX project, winning a £30,000 EGP prize.

- **Certificates & Honors:** [Certificates](#)

Languages

- **Arabic: Native**
- **English: B2 – Very Good**