

# Ahmad Ragab Haroun

## Software Engineer

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### Summary

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A junior Software Engineer who is Seeking a Software Engineer challenging position in a leading company. Equipped with a strong foundation in computer science, programming, Electronics fundamentals, and Embedded Systems Implementation which I have developed through my academic journey, pieces of training in Places like the National Telecommunications Institute (**NTI**), and Courses instructed by some of the best Engineers in Egypt in this industry.

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### Experience

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**Automotive Embedded System Intern – NTI with Avelabs LLC** Jun 2023 - Oct 2023

- Internship is designed to provide trainees with: embedded system architecture, communication protocols like UART, SPI, I2C, CAN and LIN software development using real-time operating systems, driver development for microcontrollers, Software Engineering and Testing Concepts, AUTOSAR, Makefile.

**Electronics and Communication Engineer – ministry of irrigation** May 2022 - May 2023

- Responsible for managing networking and connectivity infrastructure within the department, overseeing all related actions and ensuring seamless communication among devices

**Telecommunications Site Engineer - Innovatech Group company(ITG)** Oct 2021 - May 2022

- Responsible for overseeing the on-site deployment of equipment and the maintenance of RF signal transmission devices (2G, 3G, and 4G) within the mobile communication infrastructure in urban areas

**Call center representative and customer support - Orange Company** Dec 2019 - May 2020

- Responsible for promptly answering customer calls and efficiently resolving internet connection issues. Utilized database access to check ADSL accounts, ensuring accurate and effective solutions to enhance overall customer satisfaction

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### Education

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Fayoum University | B.Sc in Electronics and Communication Engineering

May 2019

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### Projects

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Smart Home System(Robotic): Graduation Project : **Excellent**

- Developed a fingerprint security system, gas alarm system, temperature measuring system using an LM35 temperature sensor, firing alarm system, rain detection system.
- Designed a robot to clean the swimming pool area in front of the house. The robot included IR circuit to indicate when the robot's garbage box is full, and a voltage measuring circuit to sense the battery's output voltage and provide a warning before it runs out of power.

Door Locker Security System: Developed a system to unlock a door using a password

- Drivers: GPIO, Keypad, LCD, Timer, UART, I2C, EEPROM, Buzzer and DC Motor
- Microcontroller: ATmega32.

Fan Speed Controller with Temperature System: controls the speed of a fan depending on the temperature

- Drivers: GPIO, ADC, PWM, LM35 Sensor, LCD and DC-Motor
- Microcontroller: ATmega32.

Distance Measuring System: Implemented a system that measure the distance and display it on LCD

- Drivers: GPIO, ICU, Ultrasonic Sensor and LCD
- Microcontroller: ATmega32.

Stop-Watch System:

- planned a system that control the stop-watch time and display it on 7-segments.
- Drivers: GPIO, Timer, External Interrupts and 7-Segment
- Microcontroller: ATmega32.

Projects Developed in Python programming Language:

- A To-Do List : application helps users manage and organize their tasks efficiently.
- Contact Book : contact management, featuring contact addition, deletion, , updating, and, with a friendly interface.
- Calculator : Prompt the user to input two numbers and an operation. the calculation and display the result.
- Rock-Paper-Scissors Game .

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## Courses

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| ● Full Embedded Systems Diploma at <a href="#">Edges For Training</a>   | May 2023 |
| ● C++ for the Complete Beginner (Udemy)                                 | Dec 2023 |
| ● Python Internship Program with <a href="#">CodSoft</a>                | Jan 2024 |
| ● Ubuntu Linux Essentials Course (ITI Platform)                         | Dec 2023 |
| ● ISTQB – Certified Tester Foundation Level Content (Self Study)        | Nov 2023 |
| ● Introduction to Software Testing Concepts & Techniques (ITI Platform) | Nov 2023 |
| ● Certified With McKinsey & Company Forward Program                     | May 2023 |
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## Skills

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C/C++	OOP	SQL	SDLC	Communication Skills
python	Linux	RTOS	White Box Testing	Problem-solving
Data structure	QT	AVR & ARM	Black Box Testing	Teamwork
Algorithms	Makefiles	UART,CAN,LIN	STLC	Presentation Skills

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## Languages

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Arabic: Mother Tongue.

English: Fluent.