

Ahmed Mamdouh

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Objective

An electrical and communications undergraduate with a passion for embedded software development, I am excited to explore internship opportunities in this field.

Education

Level 4, Electrical and Communications Engineering – Higher Technological Institute 10th of Ramadan (HTI). Sep 2021 – June 2026

Accumulative Grade: Very Good

Training

Information Technology institute (ITI)

Suez Canal, Ismailia, Egypt | June 2024 – Aug 2024

- Introduction to IoT – 18 Hours
- Embedded C – 30 Hours
- Wireless Communication Fundamentals - 30 Hours
- Linux - 24 Hours
- LoRaWan for IoT - 18 Hours
- ORAN -10 Hours
- Embedded Linux – 20 Hours
- Project – 30 Hours

IMT School Company |

Nasr City, Cairo, Egypt | June 2023 – Aug 2023

- C-Programming for Embedded Systems – 40 Hours.
- Embedded Systems Concepts – 8 Hours.
- Embedded Systems Interfacing – 64 Hours.

Work

Coding Instructor – iSchool | Project: Digital Egypt Cubs(Demi)

July 2025 – Sep 2025

- Worked with Grade 6 students.
- Taught more than 100 students
- Delivered over 80 online sessions.

Courses

• IMT Embedded Systems Diploma.

The Diploma covered the below topics:

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| ○ Basic Concepts of Embedded Systems. | ○ C Programming. |
| ○ Data Structures (Linked-List, Stack and Queue). | ○ AVR Microcontrollers Interfacing (Implement all the drivers). |
| ○ C For Embedded Applications (Embedded C). | ○ Real Time OS (RTOS). |
| ○ Software Engineering. | ○ Embedded Tools. |
| ○ HW Labs | |

Projects

- **Digital clock using AVR microcontroller**
- **Calculator using AVR microcontroller**
- **Safe Machine using AVR microcontroller**

Skills

- Python , C , C++ , Java Script
- Linux
- MATLAB
- Problem Solving
- Communications skills
- Critical Thinking
- Analytical skills
- Presentation skills
- Leadership skills
- Teamwork skills
- Microsoft (Word, Excel, Power Point)

Tools

- Eclipse
- Atmel Studio
- CodeBlocks
- Proteus
- Arduino
- Mikro c
- Mblock
- Godot

Language

- Good at English writing and listening
- Arabic (Native language)

Volunteer Work

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| • Member of HR in American Institute of Chemical Engineers HTI (AIChE) | Nov 2021 – June 2022 |
| • Head of HR in American Institute of Chemical Engineers HTI (AIChE) | June 2022 – Aug 2024 |
| • President of the American Institute of Chemical Engineers HTI (AIChE) | Aug 2024 – Until Now |