

## **Nancy Muhammed Mahmoud**

Fresh Graduated Communication and Electronics Engineer

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### **Professional Summary**

Recent graduate in Communication and Electronics Engineering with a solid foundation in telecommunications, networking, and embedded systems. Passionate about leveraging technical skills and innovative problem-solving to contribute to impactful engineering projects. Eager to develop and excel in communication systems and IoT technologies.

### **Skills**

- Technical Skills: Python, C/C++, Embedded C, Assembly, Cisco Packet Tracer, Proteus, HTML/CSS, Microsoft Azure, AWS Sagemaker, Jupyter Notebook.
- Networking: CCNA (Routing, Switching, Security), IoT Basics, Network Automation.
- AI/ML: Machine Learning, AI Algorithms, Data Analysis, Deep Learning, Generative AI.
- Languages: Arabic (Native), English (Intermediate), Spanish (Beginner).

### **Education**

#### **Bachelor's Degree in Communication and Electronics Engineering**

##### **Helwan University — 2019-2024**

- Grade: Good
- Graduation Project: Firefighters Helmet (Excellent)  
Developed an AI-powered helmet using thermal cameras and AI algorithms for enhanced visibility in smoke-filled environments.

### **Certifications and Training**

- **CCNA — NTI, 2022**
  - Gained expertise in IP addressing, Ethernet protocols, routing, switching, and network security.
- **Embedded Systems — ITI, 2022**
  - Microcontroller programming, RTOS, and hardware interfacing.
- **HCIA-AI — Huawei, 2023**
  - Specialized in machine learning and deep learning for AI product design.
- **AI Programming with Python — Udacity, 2024**
  - Covered Python, NumPy, Pandas, and PyTorch fundamentals for neural network development.
- **Applied Data Science Lab — WorldQuant University, 2023**
  - Completed 8 data science projects focusing on data analysis, ETL pipelines, and machine learning.

- **Additional:** Database Fundamentals (2023), AI For Everyone (2023), Machine Learning Fundamentals (2024).

### **Professional Experience**

#### **Coding Instructor — TimeDoor Academy, El-Dokki Branch, June–July 2024**

- Taught programming concepts to children aged 5–18, fostering a passion for coding and technology.

### **Projects**

#### **Firefighters Helmet — Graduation Project, 2024**

- Designed and implemented a thermal camera-integrated helmet powered by AI that helps firefighters to detect people to rescue them easily.

### **Interests**

Telecommunications, AI, IoT, Sustainable Technology Solutions.