

# AHMED EMAD

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## SUMMARY

A fresh Electronics and Communications Engineering graduate with a strong academic background and hands-on experience in networks, embedded systems, and IoT. Led my graduation project, which involved developing smart gloves that translate sign language for the deaf and mute in real-time, integrated with a mobile application that displays the translated text. Passionate about continuous learning and eager to grow in the field of modern communication technologies.

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## WORK EXPERIENCE

### IMT Company

July – September 2023

- Acquired solid foundations in embedded systems concepts and C programming language.
- Gained practical experience working with ATmega32 microcontroller, including interfacing with various sensors and actuators.
- Successfully developed and implemented a Smart Home project as part of the final practical assessment.

### IBM SkillsBuild Digital

Jun 2024 - Jul 2024

- I have completed Cybersecurity Track.
- Gained foundational knowledge in cybersecurity concepts and best practices.
- Covered essential topics including threat detection, network protection, and digital safety measures.

### WE (Telecom Egypt)

July 16 – September 22, 2024

- I have completed Cisco CCNA (200-301)training.
- Comprehensive training in networking fundamentals, routing and switching, IP services, and network security.
- Acquired practical skills in configuring and troubleshooting Cisco devices.

### Practical IoT Course: Make Your Own IoT Liquid Level Meter(udemy)

September 2024

- Participated in an advanced training course on creating a liquid level measurement device using IoT technologies.
  - Learned how to design and implement practical IoT projects, including data collection, processing, and visualization.
  - Developed skills in programming and electronic hardware with hands-on project applications.
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## EDUCATION

### Bachelor's Degree in Electronics and Communications Engineering

Higher Institute of Engineering and Technology, New Damietta – Egypt

Duration: 2020 – 2025

- Graduation Project: Development and Evaluation of Wearable Smart Gloves for Real-Time Sign Language Translation – Led a team to design and build smart gloves integrated with a mobile app to translate sign language into written text in real time.
  - <https://doi.org/10.9734/jerr/2025/v27i41475>
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## ADDITIONAL INFORMATION

### Technical Skills:

- Embedded Systems (ATmega32, Arduino), C Programming, IoT Applications, Mobile App Integration, Networking Fundamentals (CCNA), Cybersecurity Basics, Sensors and Actuators

### Languages:

- Arabic (Native), English

### Certifications:

- Cisco CCNA (Training by WE – Telecom Egypt)
- Embedded Systems Certificate – IMT Company (Hands-on training with ATmega32 and smart home project)
- Cybersecurity Track (IBM – ILO – EFE Egypt – Netherlands Embassy)
- IEEE Workshop on 5G Technologies

### Computer Skills:

- Embedded Programming Tools: Proteus, Arduino IDE
- Simulation & Design: MATLAB, Simulink, Multisim, Fritzing, EasyEDA
- Networking Tools: Cisco Packet Tracer
- Microsoft Office: Word, Excel, PowerPoint

### Awards / Achievements:

- Ranked 6th in class at department level (Year 1)
  - Ranked 4th in class at department level (Year 2)
  - Ranked 2nd in class at department level (Year 3)
  - Ranked 2nd in class at department level (Year 4)
  - Graduated with Excellent grade (with honors), ranking 3rd in the class.
  - Achieved Excellent grade in the Embedded Systems training at IMT Company
  - Achieved Excellent grade in the CCNA training at WE (Telecom Egypt)
  - Earned Excellent grade in the graduation project for innovation and technical execution
  - Completed a practical Smart Home project during embedded systems training at IMT Company
  - Developed a practical multimeter device as part of the final application for the "Electronics Testing 3" course. (The project received high praise from the Engineers Syndicate Quality Committee during their official visit to the college)
- [https://drive.google.com/file/d/1hWZICDJlIg-RKBKJ5Hh3VKBo6XtzXVdv/view?usp=drive\\_link](https://drive.google.com/file/d/1hWZICDJlIg-RKBKJ5Hh3VKBo6XtzXVdv/view?usp=drive_link)