

## Amira Sayed

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### PROFILE

Enthusiastic and proactive Electrical Engineer with a passion for continuous learning and problem-solving. Skilled in various engineering tools, programming languages, and software, with hands-on experience in innovative projects and competitions. Creator of a YouTube channel sharing insights on technology and engineering.

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### EDUCATION

**Suez Canal University**

**B.Sc. in Electrical Engineering**

**Grade:** Very Good (3.52 GPA)

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### SKILLS

**Programming Languages:** Python, HTML, CSS, JavaScript, Java, C, C++, SQL, BashScript

**Specialized Areas:** Machine Learning, Deep Learning, Computer Vision, Embedded Systems, IoT, Classic Control, PLC

**Software Tools:** Microsoft Office Suite, Proteus, AutoCAD, SolidWorks, PCB Design (Eagle, Multisim), RD Works, Arduino, MATLAB, ROS1

**Languages:** Arabic (Native), English (Very Good), French (Basic), German (Basic)

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### EXPERIENCE

#### Software Engineer | ALX

- Acquired proficiency in Python, C, HTML, CSS, JavaScript, SQL, Flask, Frontend, Backend, and problem-solving techniques.

#### Samsung Innovation Campus (IoT)

- Completed a 3-month scholarship program focusing on IoT technologies.

#### Embedded System Diploma | Creativia

- Developed expertise in C programming, microcontrollers, and final project development.

#### ROV Competitions

- Participated for three years, contributing to robotic system designs and enhancements.

### **Rally Startup Competition**

- Developed a plant disease detection model integrated with an ESP camera.

### **Machine Learning Engineer | NTI**

- Completed a 1-month program, gaining insights into ML techniques and tools.

### **Autonomous Car Projects**

- Worked on Computer Vision, GUI, and hardware design as part of the Racing Team for three years.

### **Schneider Electric**

- Earned 60 certifications in Green Energy.

### **Digital Fabrication Training | Creativia**

- Trained on CNC laser machines, 3D printing, and PCB fabrication.

### **Suez Canal Authority**

- Worked on classic control circuits and motor control projects.

### **YouTube Channel**

- Content creator sharing tutorials on engineering topics and hands-on projects.
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## **INTERNSHIPS**

- **ITI:** 160-hour Java programming training
  - **Creativia:** Embedded Systems Diploma (2 months)
  - **ITI:** IoT and Cybersecurity training (1 month each)
  - **Orange:** Digital Fabrication training (4 days)
  - **ALX:** Software Engineering program (9 months)
  - **DataCamp:** Data Analysis, Data Science, and Machine Learning Tracks
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## **PROJECTS**

- **Safe Box with Sound Feedback:** Designed for visually impaired users; includes ESP camera integration to capture and send images to Telegram.
- **Smart Farm:** IoT-based project using Raspberry Pi Camera (Graduation Project).
- **Defect Detection System:** Integrated with ESP camera for product quality assurance.

- **Robotic Car:** Designed and built for various competitions.
  - **Plant Disease Detection:** Model integrated with ESP camera to identify infected plants and notify owners via Telegram.
  - **Attendance System:** Automated attendance tracking.
  - **Face Recognition and Object Detection:** Custom models developed using YOLO algorithm.
  - **Audio Amplifier** and **DC Power Supply:** Video tutorials created for step-by-step guidance.
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## CERTIFICATIONS

- **Embedded System Diploma** | Creativia
  - **DataCamp:** Data Analytics, Data Scientist, and Machine Learning Tracks
  - **Innov Egypt Program** | 45-hour training
  - **Schneider Electric:** Green Energy program (60 certifications)
  - **ITI:** Java Programming (160 hours), Front-End Developer, and Cybersecurity for Beginners
  - **NTI:** Machine Learning Engineer
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## STUDENT ACTIVITIES

- **ROV Competition:** Specialized in Python, C++, OOP, Computer Vision, Machine Learning, and GUI design.
  - **Rally Competition:** Developed and connected a plant disease detection model with ESP cameras.
  - **Autonomous Car Community:** Learned ROS1, Ubuntu, Linux commands, and YOLO-based custom training.
  - **EVER Competition:** MATLAB modeling and SolidWorks for suspension system design.
  - **IEEE & GDSC:** Technical member and AI speaker roles.
  - **SailFish ROV:** Hardware Technical Member.
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## INTERESTS

- Continuous learning and teaching through content creation on YouTube.
- Participating in engineering competitions and innovative projects.