

# AbdelrahmanYasserSamir CV

## CONTACT INFO:

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Github: <https://github.com/abdelrahman-ay>

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## EDUCATION:

Faculty of Electronics and Telecommunications Engineering

Al-Safwa HIET

2020-2025

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## EXPERIENCE:

EESENC0

Palestine Embassy

IT Specialist Intern

Aug 2024 – Sept 2024

Learned how IT systems work and how to fix Potential arising problems from Pelco camera systems, Intruder systems, Q.serve systems, Door access systems, ZTK attendance management system, Fire alarm systems and Fire suppression systems with electronic fixes and programming and setting up systems.

IEEE Al-Safwa Egypt

IT Dept. Manager

2022 – 2023

Taught fresh students basics of networking and programming with c++ and java and electronic programmed automation with arduino boards and raspberry pi and node mcu Assessed 20+ students with answering questions and solving problems and helping with ideas and principles of thinking and training students to have creative ideas for minimal cost and best results and best quality.

## PROJECTS:

- Smart home wireless control with esp32 with power sockets and Temperature, Humidity, light and motion sensors with smart assistant control.
  - Smart home monitoring and control system using esp32 and lcd with http protocol.
  - Smart garage system with phone control using http protocol using esp32 and IR sensors.
  - Smart fan with esp-01 controlled with online Blynk server.
  - Obstacle avoidance robot using arduino, IR sensors and ultrasonic proximity sensors.
  - Quad robot remote controlled from phone using bluetooth protocols with esp32 and 16 servo motor using I<sup>2</sup>C protocol.
  - Fire alarm with only lm35 and 555 timer and buzzer.
  - Smart woofer speakers using Bluetooth protocols with bluetooth control board and amplifier board.
  - Wireless controlled Gamepad using esp32 with bluetooth protocol as hid interface with gyroscope mpu8060.
  - Android application to convert currency EGP/EUR/USD with api to update exchange rates from google finance.
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## COURSES:

- Arduino Beginner Guide - Udemy  
May 2023 — May2023  
<https://www.udemy.com/certificate/UC-4c3d2549-faf7-4b69-bbff-4c7bff13895a/>
  - Beginners guide to Android App Development - Udemy  
May 2023 — June2023  
<https://www.udemy.com/certificate/UC-22ff043f-f618-48dd-bf13-055e46160f0e/>
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## SKILLS

- C++
- Python
- Java
- HTML, CSS, JavaScript
- Microcontrollers programming
- Embedded Systems design and problem solving
- PCB Designing
- Data Structure
- Datasheets, Wiring diagrams and Schematics writing
- Communication protocols (UART, SPI, I<sup>2</sup>C)

- Automotive protocols (CAN, LIN)
  - API control
  - Project research
  - Project documentation
  - Hardware interfacing with software control
  - Software life cycle
  - Reverse engineering skills
  - Testing products & software
  - Video editing
  - logo designing
  - Graphic designing
  - Web designing
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## **TOOLS:**

- Android Studio - VSCode - Platformio - ArduinoIDE - OpenCV
  - Proteus - Altium Designer - Autodesk Eagle - Fusion 360 - Git and Github
  - Microsoft Office - Figma - Adobe Photoshop - Adobe Illustrator - Sony Vegas - Audacity
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## **SOFT SKILL:**

- Time management
  - Communication skills
  - leadership skills
  - Decision making skills
  - Problem-solving skills
  - Teamworking skills
  - Negotiation Skills
  - Creativity
  - Multitasking
  - Adaptability
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## **LANGUAGE:**

- Arabic: Native
- English: Bilingual
- Deutsch: Intermediate