

Abdelrahman Youssef

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Education

Al-Safwa HIET

Sep 2020 - Jul 2025

Graduation Project: Real-Time Edge-AI Powered Driver Drowsiness Detection with Integrated IoT-Based Emergency Response unit

Experience

EESENCO

Palestine Embassy

IT Technician Intern

Aug 2024 - Sep 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.

Projects

- **Smart fan [Link]**
Desk Fan controlled with esp-01 and motor driver providing online control through Blynk or MQTT Server.
- **Smart Monitor [Link]**
Clock and atmospheric Temperature - Humidity display with arduino uno and dht11 and 16x2 LCD.
- **OTA [Link]**
Update system for Esp32/Esp8266 with http requests and github authentication from Github Releases.
- **Bluetooth Speaker [Link]**
Portable woofer speaker using Bluetooth with Bluetooth control board and Sound amplifier board.
- **Gyro Gamepad (ongoing)**
Gamepad controlled with buttons and gyroscope and battery powered and bluetooth enabled with pc support.

Leadership & Activities

IEEE Al-Safwa Egypt Student Activity Embedded Dept. Tutor

Al-Safwa HIET
Sep 2022 - May 2023

- Taught fresh students programming with C++ and Arduino courses starting from very basics to OOP.
- Assessed 20+ students with problem solving and debugging for applications and devices and building errors.
- Built engaging activities to encourage team-working skills and creativity in efficient code designs.

Skills & Interests

Technical: C, C++, Python, ARM, AVR, RTOS, FreeRTOS, I2C, SPI, Uart, PCB Design, Cmake, GDB, Design Pattern, Git.

Certificates: CourseVox - Embedded Systems Diploma, Altium Designer - PCB Design Course, HA - Basic Control Course

Language: Arabic(Native), English(Bilingual), Deutsch(Basic), French(Basic).