Abram Gad

Biomedical Engineering

Personal details:

ebram.meawad01@eng-st.cu.edu.eg

(+20)1555093395

Giza Square, Giza, Egypt.

https://github.com/Abram1111

https://www.linkedin.com/in/abram -gad-hanna/

Education:

BS. in System & Biomedical Engineering (2024) Faculty of Engineering - CairoUniversity.

Skills:

Html\CSS

JavaScript & TypeScript

React JS & TS

Redux Toolkit

MYSQL

C\C++

Java

Python

Git/GitHub

MATLAB

Embedded Systems .

Circuit design using Proteus .

Volunteer Work:

IEEE CUSB (2022):
Embedded Systems Member

IEEE EMBS (2023):
Embedded Systems Head

Trainings:

ITI Summer Training MEARN Stack Track (2023)

- JavaScript & ES6, React, MongoDB and TypeScript

ITI Summer Training IOT Track (2023)

- Introduction to IOT and Data base fundamentals

IMT Embedded Diploma (2022)

- C programming, Interfacing with ATMEGA 32, RTOS and Communication protocols

Trainee at Cairo university medical equipment calibration lab

- Calibration of various devices and physics of medical equipment.

Projects:

GRADUATION PROJECT:
Autonomous tracking trolley using WIFI signals and AI designed to enhance user convenience in environments such as airports and restaurants. Integrates various technologies, including ultrasonic sensors for **obstacle detection**, WIFI access points for **location tracking**. employs a **machine-learning algorithm** to identify the trolley's and user's regions based on **WIFI signal strength.** The mapping algorithm then guides the trolley to the user's location or a specified destination, controlled via **a mobile app**

HOSPITA WEBSITE FULL STACK
6 pages the home page, signup page, one dashboard for admin, one for doctors, one for nurse and patient page, using HTML, CSS, JavaScript, Flask.

POLLY CLINICS HIS SYSTEM WEBSITE
system includes 5 different clinics Portals, Patient Portal and Admin Portal using React, TypeScript, Redux Toolkit and node JS

FACE DETECTION & RECOGNITION
using PCA and SIFT technique and machine learning SVM model.

DIGITAL FILTER WEB APP
using HTML, CSS, JavaScript, Flask.

EQUALIZER WEB APP
has 4 channels options (normal, music, animals, letters) using Streamlit framework

BANK SYSTEM & ATM GUI
using java swing, OOP software project using Java.

PAINT APPLICATION GUI
using QT, C++ programing and data structure.

SIGN LANGUAGE DETECTOR
can convert fingers movement to letters on lcd and send it to mobile app to convert it to speech

INCUBATOR FULL FUNCTION
connected to mobile app using Arduino, Bluetooth module, Humidity sensor, light sensor, Temperature sensor and FSR

EMG DEVICE FULL FUNCTION using Arduino.

HAEMODIALYSIS DEVICE FULL FUNCTION using Arduino

SYRINGE PUMP DEVICE FULL FUNCTION using Arduino.

Courses:

- OOP in Java Specialization from Duke University **(Coursera)**
- Meta Front-End Developer Professional **(Coursera)**