

## CONTACT

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## ABOUT MY STUDIES

I've took a Data structures, database, clinical engineering, Digital Signals Processing & Computer Graphics courses.

**LANGUAGES**  
English, Arabic

## **SOFT SKILLS**

- Good speaker in public
- Skilled at generating solutions
- Self-Motivated
- Teamwork

## **INTERESTS/HOBBIES**

- Different music instruments.
- Chess and photography.

# Asmaa Khaled

Biomedical Engineering Student

## **EDUCATION:**

[2020-2025]

Health care Engineering and Management, Faculty of Engineering, Cairo University.

**GPA: 3.12**

## **KEY SKILLS:**

Technical Development: MATLAB, JavaScript, Python.

Desktop Development: C++, QT

Web Development: HTML, CSS.

Backend Development: API (Flask), Database (MySQL).

Packages: Numpy, VTK, pandas

## **PROJECTS:**

### **Heart sound classification using DWT**

An automated system based on signal processing techniques to distinguish between pathologic and normal heart sounds using MATLAB.

### **Multichannel signal viewer**

A web application that illustrates multichannel medical signal viewer (ECG, EMG), using JavaScript and NodeJs.

### **Signal Equalizer**

Web app equalizes signals in different modes vowels, musical instruments, and biological signal It features sliders to adjust frequency components and reconstruct the signal in real-time, using python & JavaScript.

### **Shipping company stimulator**

A complete object-oriented C++ program that stimulates the operation of the cargo delivery process.

### **Image mixer web app**

Digital Signals Processing Magnitude & Phase Mixer for Images, using python & JavaScript.

### **Hospital Department Database Management system**

A Full stack web application using Flask, python and SQL with (Doctor's and Patient's access)

## **TRAINING AND CERTIFICATION**

### **Arab Tech (Internship)**

Troubleshooting and maintenance medical devices, Operating X-ray machine, Dental Imaging and medical laser devices.