Salsabeel AlKitkat

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🎓 EDUCATION

Bachelor of Biomedical Engineering - Expected 2026
Cairo University
Oct 2021 – Jun 2026

GPA:3.39
Related CourseWork: Digital Signal Processing, Database Systems, Medical Distributed Application Development

🧠 SKILLS

Technical Skills:
- Technical Development: Python, Matlab
- Web Applications Development: HTML, CSS, JavaScript
- Desktop Applications Development: C, C++, PyQt
- Graphics: OpenGL, Blender
- Database Development: Database Design, Relational Databases (PostgresSQL), Flask, NoSQL(MongoDB)
- Operating Systems: Ubuntu Linux
- Version Control Systems: Git, GitHub
- DevOps: Cloud, AWS, Azure
- Embedded system developments: Arduino IDE, Atmel, Proteus

Non-Technical Skills:
- Teamwork
- Time Management
- Presentation Skills
- Communication Skills
- Problem Solving Skills

🌐 LANGUAGES

Arabic

English

French

Turkish

💼 PROFESSIONAL EXPERIENCE

As-Salam International Hospital
Clinical Engineering intern
Jul 2024 – Aug 2024 | Cairo, Egypt

🧩 EXTRACURRICULARS

Momentum Robotics - Cairo University
Public Relations & Fundraising Committee Member

📂 PROJECTS

ICU Monitor 🔗
Desktop Application that simulates hospitals' ECG & EMG monitors with features like real-time display and signal operations. It offers users an intuitive interface for loading, analyzing, and generating reports on biological or non-biological signals.Using PyQt5.

Signal_Equalizer 🔗
Desktop Application for signal processing with four modes: Uniform Range, Musical Instruments, Animal Sounds, and ECG Signals. Features dynamic signal visualization, Fourier domain analysis, and frequency manipulation via sliders. Using PyQt5.

Fourier Transform Images Mixer 🔗
Desktop Application that takes multiple images and morphs them by applying fourier transform and manipulation of their components. Allows easy brightness and contrast modification. Using PyQt

Voice Recognition Authentication System 🔗
Desktop Application utilizes voice fingerprint and spectrogram technology to identify individuals based on their unique vocal characteristics. The system can be trained on up to 8 individuals and operates in two distinct modes to ensure secure access. Using python machine learning and PyQt5.

Hospital-Website 🔗
A full-stack web app serving as a comprehensive platform for managing appointments, interactions, and information for Cardiology and Dentistry departments. Supports multiple user roles: Patients, Doctors, and Admin. Using HTML, CSS, JavaScript, Django and PostgresSQL

Realtime_Digital_Filter 🔗
Desktop Application for custom digital filter design, featuring interactive z-plane plotting, frequency response visualization, real-time filtering, and phase correction using All-Pass filter. Using Pyhton OOP & Data Structures & PyQt.

PaintForKids
A Desktop educational game teaching kids about colors and shapes in a fun and simple way. It allows them to draw, move, delete, resize and change colors of different polygons also redo and undo any of the past commands. Using C++ OOP & GUI

Multi-Processor Schedular
Desktop Application that simulates how processes are executed inside a CPU and distributed among different processors with different processing algorithms. Using C++ OOP & Data Structures