Mohamed Seyam

✉ mohamed.seyam99@eng-st.cu.edu.eg | 📱 (+20) 1090982078
in Mohamed Seyam | ⊙ Mohamed-Seyam

Education 🎓

📄 BSc Senior Student | **Biomedical** Engineering Department | **Cairo University** with a cumulative grade **(90%)**

📅 2018 – present   ♦ Cairo, Egypt

Training 👔

👷 Clinical and Maintenance Internship | El Monira Hospital

🖥 **Keywords**: Clinical Engineering, Repair cycle, Maintenance contracts, X-ray, MRI, CT, Ventilator, Anathesia, Incubators, hemodialysis.
💼 **Supervisors** : Eng.Amany Mohi

Projects ⚙

🎵 Audio Fingerprinting & Recognition | GUI application | ⊙

🖥 **Keywords**: Python, PyQt5, Numpy, Scipy, Matplotlib, Logging, MySQl, Combinatorial Hashing, Kernals, Spectrogram.

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🖼 Image Mixer | GUI application | ⊙

🖥 **Keywords**: Python, PyQt5, Qtdesigner, OOP, FFT, FT, Scipy, Logging

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🖥 Sound Equalizer | GUI application | ⊙

🖥 **Keywords**: PyQt5, pyqtgraph, FPDF, numpy, scipy, librosa, matplot.

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🖥 Biomedical signal Viewer. | GUI application | ⊙

🖥 **Keywords**: Python, PyQt5, pyqtgraph, FPDF, Scipy, Numpy, matplot

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🖥 Traffic Light System | ⊙

🖥 **Keywords**: Assembly, MCU(8051), proteus

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🗄 Radiology Information System | Web project | ⊙

🖥 **Keywords**: Flask, SQLALchemy, Postgres, HTML, CSS, bootstrap, JQuery, Flask-WTF

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🚀 PGM Lossless image compression.| ⊙

🖥 **Keywords**: C++, CMake, Qt, Date Structures, Algorithms, Data Compression, Huffman

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🖥 Fourier and Fast Fourier Transform.| Console App | ⊙

🖥 **Keywords**: Python, PyQt5, FFT, FT, C++

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🔗 Analyze gene expression data for cancer type LUSC | ⊙

🖥 **Keywords**: Python, Numpy, Pandas, Matplotlib, Scipy

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🔗 Object Animation & Texturing | Medical Visualization ⊙

🖥 **Keywords**: Object Animation, Texture Mapping, Lighting & Coloring, Loading DICOM Images, Surface Rendering, Ray Casting.

Skills 💡

📜 **Programming Language:**

Python: (Numpy, OpenCV, Pandas, Matplotlib, Flask, Django, PyQt)
C++: (STL, Qt, OpenGl, GLUT).
MCU 8051:(**C**, Assembly).

Ⓦ **Web Development:**

FrontEnd (HTML, CSS, JS, Bootstrap, JQuery),   **BackEnd** (Django, Flask)

🗄 **Database:** MySQL, PostgreSQL, SQLite

☰ **Digital Typesetting:** LaTeX, Markdown.

🔧 **Development EcoSystem:**

OS (⊞ Windows, 🐧 Unix), **C++ compilers** (GCC), **Others** (git ,GitHub ⊙ , MATLAB, Octave, Proteus).

Extra-Curricular Activity 🖧

Egyptian Junior Researcher Competition.

📅 Aug 2020   ♦ Nile University

Poster | **Summary**
🏆 Finalist Team at Engineering and Applied Science Research Track. It is a Nation wide Competition hosted by **Nile University** and **NU-Research**.
🖥 **Keywords**: Hydrocephalus, Wireless Powering, Wireless Communication, Biocompatible Materials, RF.

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Python for Everybody

📅 90 Hr   ♦ Michigan University
🖥 **Keywords**: Data structures, Networks, APIs Interfacing, SQLite.

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Siemens MRI, CT Molecular Imaging Workshop. 🔗

📅 Mar 2019   ♦ Cairo University
Fundamentals of MRI and CT physics and working principle.

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One For All || The Second BEAT Conference

📅 Mar 2019   ♦ Cairo University
Biomedical Engineering different careers road maps, sessions about the newest technologies and techniques in the market.

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Technical C++ instructor | Beat

Preparing material for the course introduces to engineering students from Cairo, Ain Shams and Helwan Universities.