Ramadan Ibrahem

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Education ____

Faculty of Engineering - Cairo University

Systems and Biomedical Engineering, GPA: 3.2/4.0 Senior Student

Training Experience ____

Entrepreneurship Training - InnovEgypt. %

TIEC - ITEDETA

• A Six-day intensive hands on training about the main principles of entrepreneurship

Clinical Engineering Internship

KASR AL-AINY MEDICAL SCHOOL

- · A One-month internship about the role of biomedical engineer in the hospital
- Learned about the ICU, OR, Hemo-dialysis, Ventilators

Skills

- Programming Languages
- Frameworks and Libraries
- - **Digital Type Settings** MS Office, 上下X, markdown
 - ∆ os
- Python, C, C++, Java, JavaScript Flask, Numpy, Pandas,
- Matplotlib, PyQt5, Expressjs
- **Database** MySQL, MongoDB

 - Windows, Linux
- ☐ IDE & Environments Vim, Visual Studio Code

Extra-Curricular Activity _____

One For All - The Second BEAT Conference

BEAT STUDENT ACTIVITY

- A Three-day event held at the Faculty of Engineering Cairo University by BEAT Student Activity and the main sponsor was siemens healthineers.
- The Main Porpuse of this event was to give the students a look at the bigger picture of the BME field and the different possible roles.

The 3^{rd} BECEM

Biomedical Engineering Careers in the Egyptian Market **BEAT STUDENT ACTIVITY**

- A one-day event held at the Faculty of Engineering Cairo University by BEAT Student Activity
- and the main sponsor was siemens healthineers.
- This was the latest version of that event which focuses on the new technologies and updates in the field

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Bio-Medical Image Compression.

- A Command Line Application for Lossless Image Compression using Huffman Coding Algorithm
- · Keywords:C++, CMake, Compression, Huffman Coding

Radiology Information System.

- A Back-end Radiology Information System Application Using Flask
- Keywords: Back-end, Database, Flask, SQLAlchemy

Digital Filter Design ()

- A Web Application for designing Digital Filters Using **Z-Transform**
- Keywords: ECMAScript6, P5.js, Chart.js

Multi-Channel Bio-Signal Viewer 🔾

- A Multi-Channel Bio-Signal Viewer GUI Application Using Python's PyOt5, and it has the ability to export the signals as PDF
- Keywords: GUI, Python, PyQt5, pyqtgraph, FPDF, Numpy

Images Mixer 🗘

- This is a PyQt5 GUI Application and An Application for the Fast Fourier Transform. Mixing the Magnitude and Phase of the Complex Domain of Two Images.
- · Keywords: FFT, Python, GUI, PyQt5

Music Equalizer (7)

- This is a Sound Equalizer GUI App Using Python's PyQt5. It gives you the ability to play, pause, and Equalize any one-channel wav audio file
- · Keywords: GUI, Python, PyQt5, pyqtgraph, FPDF, Numpy, FFT, Librosa

Fast Fourier (7)

- This is a console application implementing the **Fourier Transform** Algorithm and the Fast Fourier Transform Algorithm using C++ Language
- Keywords: **DFT**, **FFT**, **C++**

Trassembley (7)

- This is a Traffic Light System Using Assembley and 8051 MCU
- Keywords: Assembley, MCU, 8051, Proteus

Cancerous Gene Expressions (?)

- A Python Program to detect the Correlation between cancerous and healthy data. And do some hypothesis testing on this data
- Keywords: Python, Pandas, Numpy, Matplotlib, Scipy, Seaborn

$10^{th}\,\mathrm{UGRF}$ Special Edition: Egyptian Junior Researcher Competition. %

FINALIST TEAM IN THE ENGINEERING AND APPLIED SCIENCE RESEARCH TRACK

- Our Research paper's topic was: A Smart Shunt System as a treatment for Hydrocephalus
- Our Team was one of 15 teams filtered out of +500 different competitor teams for the finals.