

# MOHAMED OMAR

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## FACULTY OF ENGINEERING

Cairo University (BE System & Biomedical GPA: V.Good)

Giza 2016-2021

## WORK EXPERIENCE

**Dar Al Fouad Hospital** (Biomedical Engineer Trainee) August 2018 - September 2018  
**Ministry of Youth and Sports** (Africa Cup of Nations Volunteer) June 2019 - July 2019  
**AYB Association** (Academic Courses Director Volunteer) Sept 2019 - Mars 2020

## SKILLS

**Programming Languages:** C/C++, Python, R, MATLAB, MySQL, Markdown, Angular  
**Computer Skills:** Microsoft Office

## PROJECTS

**Machine Learning** R Language  
Binary Classification: Predict whether a patient dies within a year after the surgery or survives.

**FT magnitude & phase Mixer GUI** Python  
The software display for each image it's components.

**Multichannel signal viewer GUI** Python  
Open any arbitrary signal and visualize it on some nice-looking graph.

**Sound Equalizer** Python  
Use equalizer to change component of frequency in exact signal.

**Huffman Compression Tree** C++  
In information theory, Huffman coding is an algorithm for compression of data developed by David A. Huffman.

**Full Robotic Body & Camera Movements** C++  
Raising modelings transformation level. Modeling a 3D object. simulation for full body joints movement.

**CMMS Web** Python  
This project is Computerized maintenance management system (CMMS).

**Smart home & Mobile App** Android, Arduino  
Application and hardware model of smart home for people who suffer from Alzheimer to help them

**Elevator Project** C, 8051  
Design of a simple elevator system with 8051 Micro controller

**Graphics OpenGL** C++  
This project is a simple simulation for a bedroom with some furniture and robot.

## EDUCATION / COURSES

- **Machine Learning** Stanford University - June 2020
- **Introduction to Data Visualization with ggplot2** DataCamp - Nov 2019
- **Neural Networks and Deep Learning** Stanford University - Oct 2020
- **Introduction to HTML5** Michigan University - Nov 2020
- **Improving Deep Neural Networks: Hyper-parameter tuning, Regularization and Optimization** Stanford University - Nov 2020
- **Structuring Machine Learning Projects** Stanford University - Nov 2020