

# Hager youssof Abd Elwahab Elemam

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## Education:

- Mansoura university - Faculty of Engineering - Biomedical Engineering "2012 – 2017"
- Total grade :2.79 " very good"
- Banha university - Faculty of Engineering – Master’s Degree "2019 – 2024"
- Field Research: Biomedical signal, both machine and deep learning, and biomechanics.

## Work History:

- Current Job: Adjunct Teaching Assistant at Faculty of Engineering  
Mansoura University Biomedical Department

2020 – 2021/ 2021 – 2022/ 2022 – 2023: Helping with supervision for student graduation projects.

2021 – 2022/ 2022 – 2023:Teaching sections for students in Mechanics 2 (Dynamics)

2022 – 2023:Teaching sections for students in Mechanics 1 (Statics)

- Adjunct Teaching Assistant at Faculty of Engineering Damietta University

2. 2021 – 5. 2021      \*Teaching sections for students in Math 2

                                 \*Teaching sections for students in Electronics 2

- 10. 2021 – 2. 2022      \*Teaching sections for students in Math 3  
                                 \*Teaching sections for students in Electronics 1
- 10. 2022 – 1. 2023      \*Teaching sections for students in Math 3  
                                 \*Teaching sections for students in Electronics 1
- 10. 2023 – 1. 2024      \*Teaching sections for students in Electronics 1

- Adjunct Teaching Assistant at High Institute for Engineering and Technology New Damietta Communication and Electronics Department.

2. 2024                      \*Teaching sections for students in Circuit 1

2. 2024                      \*Teaching sections for students in Test 1

- Certified Lecturer from Mansoura University

2. 2024                      \*Artificial Intelligence Course

## Professional Experience:

- Previous Jobs : Sales Engineer at Technomedical Company  
                                 Clinical Engineer at Health Insurance Hospital in Mansoura
- Project on Light activated relay - Instrumentation and Measurement (Faculty of Engineering).
- Designing software that used supervised neural networks algorithms in order to segment CT lung images and calculating accuracy for each image and compared it with the accuracy of segmentation using traditional method. “Threshold”- Bioinformatics.
- Designing software to determine the best solution for the problem of fitting a curve with 2001 points, the curve equation is fifth degree, the chromosome in genetic algorithm composed of 6 genes – Bioinformatics.
- Attended Biomedical Engineering Conference 1- Mansoura University.
- Participated in a presentation on biodegradable material.
- Attended Biomedical Engineering Conference 2- Mansoura University.
- Attended The First Biomedical Engineering Careers in the Egyptian Market-

Cairo University.

- Attended The Second Biomedical Engineering Careers in the Egyptian Market-Cairo University.
- Attended Alexandria Biomedical Engineering Conference 2- Alexandria University.

## Publications:

- Alimam, H. Y., Mohamed, W. A., & Selmy, A. S. (2023). Deep Recurrent Neural Network Approach with LSTM Structure for Hand Movement Recognition Using EMG Signals. Proceedings of the 2023 12th International Conference on Software and Information Engineering. <https://doi.org/10.1145/3634848.3634851>.
- Selmy, A. S., Alimam, H. Y., & Mohamed, W. A. (2023). Improved technique to control prosthetic limbs using EMG Signal based on deep recurrent neural networks and LSTM. Authorea (Authorea). <https://doi.org/10.22541/au.168719422.21241138/v1>.

## Technical Skills:

- C Language course
- Python Programming & Software Design Course
- Artificial Intelligence Content Creation Tools 2020 Course
- Machine Learning Nanodegree Course
- Deep Learning course
- MATLAB course
- Web design course
- My SQL course
- Linux Course
- ICDL Course
- Course on Biosensors
- Classic control Course
- Micro controller Course

## Graduation Project:

- **First Project: Artificial limb**

Try to simulate the movement of nature hand to help disabilities people practicing normal life by using flex sensor, servo motors and Arduino.

- **Second Project: Smart glasses for visually impaired people**

Try to make special glasses for impaired people to help them practice normal life, communicating with other, and depending on themselves by using special glasses with Camera, Microphone, Bluetooth Module , GPS Module and Raspberry pi.

- **Third Project: Telemedicine system implementation for remote medical diagnoses**

Try to build system in home for disable and old people to communicate with their doctors and available hospitals by using Heart rate sensor, Temperature sensor, Pressure sensor, raspberry pi and Web server.

## Personal Characteristics:

- Search for new experiences.
- Ready for challenges.
- Persistent on success.

## Languages:

- Arabic (Native)
- English (Very Good)

## Internships:

- Summer training at emergency hospital –Mansoura university hospital.
- Summer training at faculty of engineering at Mansoura University to assemble the parts of ECG device.
- Summer training at The Oncology Center - Mansoura University.
- Medical Engineering Foundation Diploma 192 credit Hours

