MOHAMED HOSNY SHAKER ABOU ZIED QAMAR

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Personal information

Current Job	**Assistant Teacher at El Sherouk Academy (SHA)**
Date of birth	13 March 1984
Gender	Male
Nationality	Egyptian
Marital status	Married
Military status	Exempted

Education

Dates	October 2019 – Present
Qualification awarded	- Preparing PhD degree in the "**Nano Mechanical Energy Harvesting**".
Name of organisation providing education	Faculty of Engineering, Electronics and Communication Department, Cairo University, Giza, Egypt

Dates	October 2012 – March 2019
Qualification awarded	- Master degree in the "**Design and Implementation of a Programmable Gain Amplifier (PGA) For Hearing Aid Applications**".
Name of organisation providing education	Faculty of Engineering, Electronics and Communication Department, Cairo University, Giza, Egypt

Dates	September 2001 – June 2006
Qualification awarded	- Bachelor of Engineering in Electronics and Communication Sciences with **Excellent** grade with 2nd Honour. - Gained an **Excellent** grade in graduation project about **"Audio and Video transmission through the Optical Fiber"**.
Name of organisation providing education	Higher Institute for Engineering (HIE), El Sherouk Academy (SHA), Cairo, Egypt

Employment

Dates	Januarary 2023 - Present
Employer	**Assistant Teacher**
Position	Communication and Computer Department, HIE, SHA, Cairo, Egypt

Dates	August 2020 – December 2022
Employer	**Laboratory Engineer**
Position	Communication and Computer Department, HIE, SHA, Cairo, Egypt

Dates	September 2010 – July 2020
Employer	**Laboratory Engineer**
Position	Communication and Computer Department, HIE, SHA, Cairo, Egypt

Dates	June 2010 – August 2010
Employer	**R&D Lab Engineer**
Position	Falcon Industry, Tenth of Ramadan
	Job duties include:
	- LED Bulbs Products

Dates	January 2007 – May 2010
Employer	**Laboratory Engineer**
Position	Communication and Computer Department, HIE, SHA, Cairo, Egypt

Work Experience

- Electronics and Circuits tutorials and Measurements
- Graduate projects supervisor including:
    1. Circuit design using Electrical Design Automation (EDA)
    2. PCB design and fabrication
    3. Electronic circuits assembly and testing
- Logic design and microcontroller programming (PIC16F877a)
- Research projects with SHA research group:
    1. Traffic Light Control Project (Request and Automatic) powered by solar system
    2. Energy Harvesting Project (Currently)
    3. Universal Atmospheric Water Generator Controller Project.
- VLSI design, Simulation, and Layout using Virtuoso cadence (Analog and Digital)

Courses and Certifications

- ICDL V5, Cairo, Egypt
- PIC Microcontroller (PIC16F877a), Cairo University, Giza, Egypt

Summer training

- Telecom Egypt (2 years), Beni Suef, Egypt
- Jelecom (PBX), Cairo, Egypt
- Egypt Air, Cairo, Egypt

Language

Mother tongue	**Arabic**
Another languages **English**	**Good**

Personal Skills

- Work in electronic projects: Power supply types, Function generator Circuit,

Function generator circuit using PIC microcontroller, Battery charger, Intercom system, Digital light meter, Traffic light control, Light and dark sensor, Digital counter, Calculator circuit, Rotating lights circuit, Direction control of DC motor, Digital clock, Sound activated light tree circuit, Audio level meter, Audio amplifier, Fire Alarm Circuit, Universal Controllers (Arduino UNO) applications, and 8-to-64 Encoder Digital CMOS IC.
- Work in PCB Layout Board using Software Aids, Library, and Routing (Any Projects): Single and Two Layers.

Computer skills	
	- Professional computer skills including MS Office products (Visio, Excel...)
	- MATLAB Applications
	- Cadence
	- OrCAD (Capture, Simulation, PCB Layout, Library)
	- Advanced Design System (ADS) Simulations
	- Proteus (Circuit, Simulation, PCB Layout, Library (symbol and pcb))
	- NI Multisim (Circuit, and Simulation)
	- VHDL Applications (Excellent in 2006)
	- Java Application (Introduction): NetBeans and Eclipse
Awards	الجوائز
	- The Model Student in 2004
Other skills and hobbies	
	PERSONAL INTERESTS: Swimming, Tennis, and Soccer.
Publications	

- Design and Implementation of **A Programmable Gain Amplifier (PGA) for Hearing Aid** Applications.
- A new and Complete Design of the **Manual and Automatic Pedestrian Crossing Signal System** and its practical implementation using **Solar Energy** with OrCAD Simulations.
- Design of the **Universal Atmospheric Water Generator (AWG) Controller using PIC Microcontroller Program** with Proteus Simulation.
- Design and Implementation of the Metamaterial Impedance Matching Network for Ambient **RF Energy Harvesting** Operating at 2.4 GHz with ADS Simulation (**Currently**).
- Design and Implementation of the **Microwave Disinfection Controller** with OrCAD Simulation (**Currently**).

References	
	Preparing PhD degree (2019 – Present)
	- Prof. Dr. Amin M. Nassar (Thesis Main Supervisor) Emeritus Professor, Faculty of Engineering, Cairo University, Giza, Egypt Email: aminassar@gawab.com
	- Prof. Dr. Mohamed Mahmoud Riad El-Ghonemy (Assistant Supervisor) Professor, Faculty of Engineering, Cairo University, Giza, Egypt Email:
	- Prof. Dr. Ahmed Hesham Qandel (Assistant Supervisor) Professor, Faculty of Engineering, Cairo University, Giza, Egypt Email:
	Master degree (2012 – 2019)
	- Prof. Dr. Mohammed Fathy Abou El Yazid (Thesis Main Supervisor) Professor, Faculty of Engineering, Cairo University, Giza, Egypt Email: mfathyae@yahoo.com
	- Prof. Dr. Ahmed Nader Mohieldin (Assistant Supervisor) Professor, Faculty of Engineering, Cairo University, Giza, Egypt Email: anader@eng1.cu.edu.eg , anader@ieee.org
	- Prof. Dr. Mohamed Mahmoud Riad El-Ghonemy (Internal Examiner) Professor, Faculty of Engineering, Cairo University, Giza, Egypt Email:
	- Prof. Dr. El Sayed Mostafa Saad (External Examiner) Professor, Faculty of Engineering, Helwan University, Helwan, Egypt Email:
	Department's Research Projects (Present)
	- Dr. Mohamed Ahmed El Morsy (Main Supervisor) Supervisor, HIE, SHA, Cairo, Egypt Email: drelmorsy48@gmail.com
	- Dr. Nabil Abdu Rabou (Assistant Supervisor) Lecturer, HIE, SHA, Cairo, Egypt Email: