

## **HATEM MOHAMMED SEOUDY**

**PHD in Electrical Power Engineering**

[hatemseoudy@gmail.com](mailto:hatemseoudy@gmail.com)

1 A Yahia Twfik ST El-Ziton, Cairo, Egypt 11321

Telephone No. +202 26340829

Contact No. +201003437738

Web Site: <https://eg.linkedin.com/in/hatem-seoudy-39591779>

### **Core competencies**

- Excellent communication and written skills.
- Profound knowledge of the subject areas and ability to teach students by using various methods.
- Analytical approach and ability to research as well as an ability to finding the optimal solutions.
- Strong commitment with the job as well as interested in teaching graduate and undergraduate students.
- Good interpersonal and organizational skills
- Ability to communicate with the students, staff.
- Lab development experience.
- Experience in supervising undergraduate team projects & Training projects.

### **EDUCATIONAL BACKGROUND:**

#### **PhD in ELECTRICAL ENGINEERING**

**2012- 2016**

Al-Azhar University

Faculty of Engineering

Electrical Engineering Department

Thesis title: "ADVANCED CONTROL TECHNIQUES FOR WIND POWER GENERATOR SYSTEM UNDER VARIABLE SPEED CONDITIONS"

#### **M.sc in ELECTRICAL ENGINEERING**

**2006-2010**

Helwan University

Faculty of Engineering

Electrical Power & Machines Department

Thesis Title "MODERN CONTROL TECHNIQUES OF BRUSHLESS DRIVES"

#### **B.sc in ELECTRICAL ENGINEERING**

**2000-2005**

Shorouk Acedemy

High Institution of Engineering

Electrical Power & Machines Department

### **GRADES:**

- Bachelor Degree                      Excellent
- Graduation Project                      Excellent
- Accumulative Grade                      Very Good with Award
- Accumulative ranking                      2nd

**Graduation Project "POWER FACTOR CORRECTION USING SMART RELAY"**

## **RESEARCH INTERESTS:**

- Control Engineering.
- Renewable Energy.
- Electrical Drives.
- Optimization Techniques.

## **PROFFESIONAL EXPERIENCE:**

### **Assistant Professor**

**2016 up to now**

Shorouk Academy  
High Institution of Engineering  
Electrical Power & Machines Department

### **Responsibilities:**

Teaching the following subjects:

- Programmable Logic Controllers (PLC)
- Practical Training
- Components of control systems
- Automatic Control Engineering
- Automatic Control Engineering system
- Training Project

### **Training Project Supervision:**

Supervising of the following projects:

- Smart Parking System
- Smart Home
- Load Management
- Digital Multimeter
- Intelligent Charger
- GUI Control of a Smart Car With Ardiuno
- Smart Car
- Automatic Transfer Switch (ATS)
- Solar Energy Systems
- Smart Street Lighting

### **TEACHING ASSISTANT**

**2011 -2016**

Shorouk Academy Cairo Egypt  
High Institution of Engineering  
Electrical Power & Machines Department

### **DEMONSTRATOR**

**2005-2011**

Shorouk Academy Cairo Egypt  
High Institution of Engineering  
Electrical Power & Machines Department

### **Responsibilities:**

Teaching the following subjects:

- Automatic Control Engineering
- Automatic Control Engineering system
- Training Project
- Digital Control System

- Industrial Control Engineering
- Introduction to MATLAB
- Computer application in electrical power systems (MATLAB programming and tool boxes)
- Laboratory Teaching Assistant
  - Electrical Machines
  - Special Machines
  - Transmission line
- Leading senior year students in their graduation projects.
- Participating in Machines Laboratories upgrading.

## **PUBLICATIONS:**

1. Amr-Mohamed-Seoudy, and **Hatem-Mohamed-Seoudy**, "DESALINATION IN EGYPT BETWEEN THE PRESENT AND THE FUTURE, INDUSTRY OR TRADE," The International Desalination Association 2019 World Congress, "Crossroads to Sustainability," Dubai , October 20-24, 2019.
2. Amr-Mohamed-Seoudy, Mohamed -AbdelWahab – Swidan, and **Hatem-Mohamed-Seoudy**, "LOW PRESSURE BOOSTER PUMP FOR OPERATION STABILITY AND REDUCE THE POWER CONSUMPTION IN SWRO MEGA TRAIN SIZE," The International Desalination Association 2019 World Congress, "Crossroads to Sustainability," Dubai , October 20-24, 2019.
3. Amr-Mohamed-Seoudy, Mohamed -AbdelWahab – Swidan, **Hatem-Mohamed-Seoudy**, and Ibrahim - El.Agawany "INTER-STAGE TURBOCHARGER FOR BRACKISH WATER REVERSE OSMOSIS DESALINATION TO ENHANCE THE ENERGY CONSUMPTION AND BALANCE FLUX BETWEEN THE STAGES," The International Desalination Association 2019 World Congress, "Crossroads to Sustainability," Dubai , October 20-24, 2019.
4. Amr-Mohamed-Seoudy, Mohamed -AbdelWahab – Swidan, **Hatem-Mohamed-Seoudy**, and Ibrahim - El.Agawany "EL YOSR SEA WATER REVERSE OSMOSIS DESALINATION PLANT 80,000 M<sup>3</sup>/DAY," The International Desalination Association 2019 World Congress, "Crossroads to Sustainability," Dubai , October 20-24, 2019.
5. Al-Said Abd ElAziz Osman, A. S. El Wakeel, A. Kamel and **H. M. Seoudy**, "Optimal tuning of PI Controllers for Doubly-Fed Induction Generator using Grey Wolf Optimizer," Journal of American Science, vol. 11, pp. 154-164, 2015.
6. Al-Said Abd ElAziz Osman, A. S. El Wakeel, A. Kamel and **H. M. Seoudy**, "Optimal Tuning of PI Controllers for Doubly-Fed Induction Generator-Based Wind Energy Conversion System using Grey Wolf Optimizer," International Journal of engineering Research and Applications, vol. 1, pp. 81-87, 2015.
7. F. N. Hassan, A. Kamel, W. M. Fayek, and **H. M. Seoudy**, "Speed Regulation of Brushless DC Drives Using Optimized Fuzzy Logic Controller," in 15th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY, ASAT - 15, 2013, pp. 1-13.

## **RELATED EXPERIENCE:**

Design & Implementation of Universal power supply unit consists of:

- Single-phase AC fixed supply
- Variable DC supply
- 3-phase AC variable supply
- Under voltage, earth leakage and emergency stop

Quality Assurance Department unit,  
Responsibilities: help in:

- Course Description
- Program Description
- Course Report
- Program Report
- Assembling the course file with all its contents

### **PRACTICAL TRAININGS:**

Practical training during college years:

- Canal Electrical Distribution Company.
- East Delta Electrical Production Company.
- Shubra Company for Engineering Industries.
- ABB Arab Company.

### **SKILLS:**

- Arabic: Native Language
- English : Fluent in reading and writing
- Computer: Excellent in Word, Excel & Power point
  - MATLAB & SIMULINK.
  - Power World & PSIM
  - Smart Relay software (Zelio2)
  - Ladder programming for PLC language
- Personal:
  - Enjoys working in a team
  - Extensively analytical and logical.
  - Good problem solving skills.
  - Quick to grasp new knowledge/information
  - Flexible and adaptable learner
  - Good Communication skills

### **PERSONAL DETAILS:**

**Date of Birth** : November 5, 1983  
**Nationality** : Egyptian  
**Marital Status** : Single