# SAMER ZAID SALAH

MSc in Electrical Power Engineering and Control

## CONTACTS

00962797508916 samer_slh@yahoo.com Zarqa, Jordan.

## PERSONAL INFO

| Date of Birth | Nationality | Marital Status |
|---|---|---|
| 3/9/1986 | Jordianian | Married |

## ABOUT ME

13 years of engineering supervision over department's labs, interspersed with carring out administrative work and providing reinforcement and teaching classes to the students. 10 years of MATLAB programming. Excellent knowledge in Microcontroller programming as well. My research intreasts are Optimization Algorithems, AI based controllers, Smart grid, Renewable energy, and Power system modeling.

## WORK EXPERIENCE

**Laboratory Supervisor** **2008 - Present**

Philadelphia University, Jerash, Jordan

- Coordinate and Supervise the graduation projects Laboratory.
- Teach and Supervise the following laboratory:
    1. Electrical Engineering Laboratory.
    2. Electronics Engineering Laboratory.
    3. Measurements Laboratory.
    4. Automation and fluid control laboratory.
    5. Automatic control Laboratory.
    6. Microcontroller Laboratory.
    7. Mechanics and Vibration Laboratory.
    8. Machines and Power Electronics Laboratory.
    9. Mechatronics System Design Laboratory.
    10. Programming Laboratory.

## EDUCATION

**MSc in Electrical Power Engineering and Control** — **2021**
Tafila technical University, Tafila, Jordan

- Thesis title "*Augmented Grey Wolf Optimizer for Optimal Operation of STATCOMs to Solve Voltage Deviation of the Smart Distributed Network*".
- Thesis abstract "Jordanian Sabha Distribution Network (JSDN) is a genuine distribution network in Mafraq that experienced substantial voltage drops at its load buses as a result of PV penetration. STATCOM was used to adjust for the network's reactive power and restore the load voltages to their rated levels. Through power flow analysis in the MATLAB-Simulink environment, the proposed AGWO accurately determined the optimal reactive power and operational reference voltages of STATCOMs."
- GPA : 91.5% "Excellent".
- Top of my class.

**BSc in Mechatronics Engineering** — **2008**
Hashemite University, Zarqa, Jordan

- Project "Horizontal – Vertical Elevator using PLC".
- GPA : 3.07 "Very Good".

**High School Diploma** — **2004**
The secondary High school, Zarqa, Jordan

- Scientific Branch.
- GPA : 87.9%

## COURCES

- **PIC Microcontroller /** Compu Touch Center. — **2008**
- **SIEMENS Certified Training Course (S7 System Handling) /** JEA. — **2009**
- **E- Tutor training and contribution in (iVCL) /** Erasmus Plus Program / Germany. — **2019 - 2020**
- **IoT in the frame of IREEDER project /** Erasmus Plus Program / Jordan. — **2022**

## PUBLICATIONS

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|---|---|
| **1.** **Samer Z Salah[1]**, Jasim A Ghaeb[2], Mohammed Baniyounis[3]. " A Nonparametric Approach Trained by Metaheuristic Algorithm for Voltage Regulation in the Electrical Distribution Network Equipped by PV Farm ". *Journal of Electrical Engineering & Technology*. (Manuscript ID: EETE-D-21-01144).2022 | Accepted to be Published |
| **2.** Mohammed Baniyounis[1], **Samer Z. Salah[1]**, Jasim A. Ghaeb[2]. "Machine Learning for Prediction Models to Mitigate the Voltage Deviation in PV-Rich Distributed Network". *International Journal of Electrical and Computer Engineering (IJECE).*2022 | Accepted to be Published |
| **3.** Jasim A Ghaeb[1]*, **Samer Z Salah** [2], Firas A Obeidat[3]. "Intelligent Control for Voltage Regulation in the Distribution Network Equipped by PV Farm." *International Journal of Energy Systems*. (Manuscript ID: UEMP-2021-0066).2022 | Review in Progress |
| **4.** Obeidat, Mohammad A., and **Samer Salah**. "Double Estimators of Hybrid Power System Parameters for Grid Efficiency Enhancement." *International Journal of Power Systems* 4 (2019). | Published |
| **5.** Lazim, Mohammed T., Mohammed Baniyounis, and **Samer ZA Salah**. "Harmonics generation Due to Multi-Cycle Auto Reclosing on HV Transmission Lines." *2019 16th International Multi-Conference on Systems, Signals & Devices (SSD)*. IEEE, 2019. | Published |

## SUPERVISION OF UNDERGRADUATE PROJECTS

1. Dual axis solar tracker using LDR sensors.
2. Sensorless Dual axis solar tracker.
3. Real Time Power Factor Correction using MATLAB.
4. Mini Portable Refrigerator using Thermoelectric Material.
5. Four wheeled Robot Driving using Bluetooth.
6. Smart Touch LCD.
7. Filling Machine.
8. Over Head Crane using PLC.
9. Home Automation.
10. Line Follower Robots (using Ultrasonic and IR transducers).
11. Low Cost Water Level Measurment Device.

## REFERENCES


| | | |
|---|---|---|
| **Prof. Jasim Ghaeb**<br>Philadelphia University | jghaeb@philadelphia.edu.jo | 00962796254474 |
| **Prof. Saleh AL Jufout**<br>California State University | drjufout@yahoo.com | 00962799027877 |
| **Prof. Tarek Tutunji**<br>Al Hussein Technical University | Tarek.Tutunji@HTU.edu.jo | 00962777464516 |
| **Dr. Ibrahim Al-Naimi**<br>Sultan Qaboos University | i.alnaimi@squ.edu.om | 0096898997497 |
| **Dr. Jomanah Al shawawreh**<br>Tafila technical University | eng_juman@yahoo.com | 00962797853585 |