

## Curriculum Vitae

**Name** : Mohammed Yahya Suliman

**Nationality** : Iraqi.

**Date of Birth** : 9<sup>th</sup> Aug. 1973.

**E-mail address**: mohammed.yahya@ntu.edu.iq

**Mobile** : +9647704116100/ +9647740870495

**Marital Status**: Married, has four children

**Specialist subjects**: Power System, Power Electronics, Flexible AC Transmission Systems (FACTS), Power Quality (PQ), Computer hardware design, Industrial Control

### **Qualifications and Affiliations:**

**B.Sc.** in Electrical Engineering, Power and Machines, University of Mosul, Iraq. (1995)

**M.Sc. in** Electrical Engineering, Power system, University of Mosul, Iraq. (1998)

Thesis title "Controlling of Multiple Relays Based on Microcomputer"

**Ph.D.** in Electrical Power Engineering, University of Mosul (2014).

Thesis title "Fast Response Static Synchronous Series Compensator (SSSC) Based on Instantaneous Power Theory".

### **Professor science Jan2022**

**MIEU** Member of Iraqi Engineers Union, Iraq (1995-present).

**MIEEE** Member, Institute of Electrical and Electronic Engineers, USA. (2014)

### **Job Assignments:**

#### **1999-2004**

Lecturer in Electrical Engineering Department, University of **Al-Tahadi, Libya**.

Teaching involved (Lecturing and lab. Work) the subjects: Automatic Control-Instruments & Measurements -Advanced Instruments –Industrial Control –Electrical Machines-Digital Electronics-Microprocessor and Microcomputer as well as supervision of projects for final year students.

#### **2006-2016**

#### **Technical College-Mosul/Northern Technical University (NTU), Iraq:**

1. Lecturer in Technical Computer Eng. Dept., teaching (involve Lecturing and Lab.) the subjects: Power Electronics, Computer Applications and Fundamentals of Electrical Engineering.
2. Lecturer in Technical Power Eng. Dept., teaching (involve Lecturing and Lab.) the subjects: Electrical Power System, Power System Analysis and supervision of projects for final year students.

#### **Jun2013-Dec2013**

Lecturer, laboratory classes in School of Engineering and Built Environment, **Glasgow Caledonian University (GCU), Glasgow, UK.**

Teaching involved the subjects: Power Electronics, Digital Electronics & Analogue Electronics.

**Jan2016-Feb2017**

Director of the department of Media and Public Relations in Northern Technical University as well as director of the website of the university [www.ntu.edu.iq](http://www.ntu.edu.iq)

**Feb2017-Jul2018**

Director of the department of Scholarship and Cultural Relations in Northern Technical University.

**Nov 2019-Till now**

Head of Department of Technical Electrical Power Engineering

**Industrial Experience (2004-2006)**

Industrial Trainer in Training and Development department in Sirte Oil Company (SOC) Brega, Libya:

- Giving Technical courses for City and Guilds (C&G) of London Institute Programme 8670 Parts 1&2, also short Industrial courses.
- In charge of the Power Station practical training for technician and new engineers.
- Analysis and preparing courses, describing the control loops for different SOC plants. This includes Distributed Control System (DCS) and Programmable Logic Control (PLC) systems.
- Authorships in many short courses:

1-Process Control

2-Basic Electricity

3-Computerized Control System

4-Power Generation

5-Distributed Control System (DCS)

*All printed in Training and Development Department-Sirte Oil Company (SOC).*

**Training Courses:**

1. "Microcontroller 48 series", Al-Meshcat Institute, Mosul, Iraq, 1997.
2. "Managements", Technical College, Mosul, 2006.
3. "Wireless Computer Networking", Technical College, Mosul 2008
4. "Electrical Power Generation Stations "Thermal" ", Cairo, Egypt, 2010
5. "Qualifying Course in Teaching Methods", staff development center, Foundation of Technical Education, Mosul, Iraq, 2011.
6. "Administer the site & data processing and design", Baghdad, Iraq, 2016

**Continuous Education for Industrial Engineers:**

Participation in the high-level courses given to the Industrial Engineers with serious Discussion about the Industrial Problems and the new development in the area in Libya and Iraq, some of these courses were:

1. Power Electronics Converters.

2. Process Control.
3. Programmable Logic Control (PLC).
4. Distributed Control System (DCS).
5. Power Systems analysis (PSA) using Matlab/Simulink.
6. Planning in Power System and Electronics Instrumentation in Power Plant
7. Using Computer hardware in Protection Power System
8. Protection of Power Transformers (solid state relays)
9. Safety and Regulations of Wiring Installation
10. Industrial Application of static Relays

### **Research interest**

FACTS, Adaptive Control (FLC &ANFIS), Renewable Energy, Digital Signal process (DSP), Computer Hardware System Design, Power Electronics, Power Quality (PQ),

### **Publications**

#### **• Journal papers**

1. Alkhayyat, M.T., Khalaf, L.A., **Suliman, M.Y.**, Adaptive Control for Power Management Based on Renewable Energy, 2023PRZEGLĄD ELEKTROTECHNICZNY 1(12), pp. 104-108, 2023, DOI: 10.15199/48.2023.12.19
2. Awad, A.A. and **Suliman, M.Y.**, Energy Management in Multi-Source Power System Based on PV /Wind /Batteries / Diesel Generator Connected with the Grid, *2024 21st International Multi-Conference on Systems, Signals and Devices, SSD 2024*, 2024, pp. 411–418, DOI:10.1109/SSD61670.2024.10548009.
3. Haddad, Mushtaq R. and **Al-Suliman, Mohammed Yahya**, Voltage Profile Improvement Based on Optimal Allocation and Sizing Distributed Generation, *2024 21st International Multi-Conference on Systems, Signals and Devices, SSD 2024*, 2024, pp. 411–418, DOI: 10.1109/SSD61670.2024.10548836.
4. Alkhayyat, M.T., **Suliman, M.Y.**, Adaptive Neuro-Fuzzy Controller Based STATCOM for Reactive Power Compensator in Distribution Grid, 2022, PRZEGLĄD ELEKTROTECHNICZNY R. 98(NR 4/2022) p, p.107-112,2022, DOI: 10.15199/48.2022.04.23.
5. **Mohammed Y. Suliman** and Mahmood T. Al-Khayyat, " Adaptive Neuro-Fuzzy Controller Based on STATCOM for Reactive Power Compensator in the Distribution grid", under publication in Archives Electrical Engineering, (2020)
6. **Mohammed Y. Suliman** and Mahmood T. Al-Khayyat, " Discrimination Between Inrush Currents and Internal Faults in Power Transformers Protection Based on DWT", under publication in Electric Engineering, (2020)
7. Mahmood T. Al-Khayyat and **Mohammed Y. Suliman**, "Power Orchestration in AC Lines Using Neuro-Fuzzy Based SSSC", under publication in The International Journal of Electrical Engineering & Education, IJEEE, (2020).
8. Rakan Khalil Antar and **Mohammed Y. Suliman**, " Harmonics Resonance Elimination Technique using Active Static Compensation Circuit", Bulletin of Electrical Engineering and Informatics, BEEI, vol 10, no. 5, pp 2405-2413, (2021)
9. Ahmed J. Ali, **Mohammed Y. Suliman** and et al, " Performance investigation of stand- alone induction generator based on STATCOM for wind power application", under publication in International Journal of Electrical and Computer Engineering (IJECE), (2020)
10. **Mohammed Y. Suliman**, " High impedance Fault Detection in Radial Distribution Network Using Discrete Wavelet Transform Technique", under publication in International Journal of Emerging Electric Power System, IJEPS, (2020)
11. **Mohammed Y. Suliman** and Mahmood T. Al-Khayyat, " Power Flow Control in Parallel Transmission Lines Based on Unified Power Flow Control (UPFC) ", Bulletin of Electrical Engineering and Informatics, vol 9, no.5, pp1755-1765 (2020)
12. **Mohammed Y. Suliman** and Mohammed Ghazal, " Design and Implementation of Overcurrent Protection Relay", under publication in Journal of Electrical and Engineering & Technology, springer (2020).
13. **Mohammed Y. Suliman**, "Voltage Profile Enhancement in Distribution Network Using Static Synchronous Compensator STATCOM", International Journal of Electrical and Computer Engineering (IJECE), vol 10, no 4, pp3367-3374, (2020).

14. M. Kharrich, O. H. Mohammed, **Mohammed Y. Suliman**, M. Akherraz, "A Review on Recent Sizing Methodologies for Hybrid Microgrid Systems", International Journal on Energy Conversion (IRECON), Vol.7, No.6, pp230-240, (2019)
15. **Mohammed Y. Suliman**, " Active and Reactive Power Flow management in Parallel Transmission Lines Using Static Series Compensation (SSC) with Energy Storage", International Journal of Electrical and Computer Engineering (IJECE), vol. 9, no. 6, pp4598-4609, (2019).
16. **Mohammed Y. Suliman** and Rakan Khalil Antar, " Power Flow Controller Based on A New Proposed STATCOM Controller", International Journal of Applied Science and Engineering, vol 7, no 4, (2018)
17. **Mohammed Y. Suliman**, "Design of Static Synchronous Compensator STATCOM Based on Neuro-Fuzzy Logic Control", under process of publication in Journal of Engineering and Development, Univ. of AL-Mustansiriya, (2016)
18. **Mohammed Y. Suliman**, " A Proposal Technique of High Impedance Fault Detecting Using Adaptive Neuro-Fuzzy Logic Control", Engineering and Technology Journal, University of Technology, vol 34, part (A), Issue 11, pp 2086-2095, (2016)
19. **Mohammed Y. Suliman**, "Voltage Profile Improvement Using Static Synchronous Compensator STATCOM", International Journal of Advanced Engineering, Management and Science, Vol. 2, Issue-5, May, (2016).
20. **Mohammed Y. Suliman**, Sameer Sadoon, "Design of Fast Real Time Controller for the Dynamic Voltage Restorer Based on Instantaneous Power Theory ", International Journal of Energy and Power Engineering, Vol 5, Issue 2-1, (2016).
21. **Mohammed Y. Suliman**, " A New Technique of Microcomputer Based Overcurrent Relay", Al-Rafidain Engineering Journal, vol 16, No. 5, (2008).
22. **Mohammed Y. Suliman** and Amer Kado, "Design Three Phase Overcurrent Relay Based on Microcomputer", Journal of Engineering Science Tikrit, (2008).

#### • Conferences papers

1. **Mohammed Y. Suliman**, Mohammed Ghazal, "Detection of High Impedance Fault in Distribution network using Fuzzy Logic Control", 2<sup>nd</sup> International Conference on Electrical, Communication, Computer, Power and Control Engineering ICECCPCE19, 13-14 Feb, (2019).
2. **Mohammed Y. Suliman**, M. E. Farrag, "Power Balance and Control of Transmission Lines Using Static Series Compensator", IEEE 53<sup>rd</sup> International Universities Power Engineering Conference (UPEC2018), 4th-7th Sept, Glasgow, UK (2018).
3. **Mohammed Y. Suliman**, "Adaptive Controller based on Power Flow Regulation using FACTS Device", published in 2<sup>nd</sup> international scientific conference of Southern Technical University (STU), Basra, Iraq, (2017).
4. **Mohammed Y. Suliman**, M. Emad Farrag and Sinan Bashi " Design of Fast Real Time Controller for the SSSC Based on Takagi-Sugeno (TS) Adaptive Neuro-Fuzzy Control System", International Conference on Renewable Energies and Power Quality (ICREPQ'14), Cordoba, Spain, 8-10 Apr, (2014).
5. **Mohammed Y. Suliman** and S. Bashi, "Fast Response SSSC Based on Instantaneous Power Theory", First International Scientific Conference (ICECCPCE13), Mosul, Iraq, 17-18 Dec, (2013).
6. **Mohammed Y. Suliman** and S. Bashi, " Instantaneous Active and Reactive Power Measuring in Three Phase Power System", 3<sup>rd</sup> International Scientific Conference, Najaf, Iraq, 20-21 Feb, (2013).
7. **Mohammed Y. Suliman**, " Microcomputer Based High Impedance Fault Detection In Low-Voltage Distribution Feeders", 3<sup>rd</sup> international Scientific Conference of Wassit University, Wasit, Iraq, 9-10 Dec, (2009).
8. Amer Kado and **Mohammed Y. Suliman**, " Distribution of Eddy Current and Power Loss Density on The End Face of Solid Cylindrical Rotor", 10th international Scientific Conference for Foundation of Technical Education, Baghdad, Iraq, 28-29 Mar. (2007).

#### Reviewer and Editorial Board:

1. Editorial board in Journal of renewable energy
2. Reviewer in Journal of electrical Engineering and Technology (Springer)
3. Reviewer in IEEE conference (2018)
4. Reviewer in IEEE conference IC2019

#### Academic Referees

- **Prof. Dr. Sinan M. Bashi**,

Electrical Engineering Dept., University of Mosul,  
Mosul, Iraq.

Email: [sinanbashi@hotmail.com](mailto:sinanbashi@hotmail.com)

- **Dr Mohamed Emad Farrag**

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**Accounts:**

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<https://scholar.google.com/citations?hl=ar&imq=Mohammed+Y.+Suliman&user=QTQIhtMAAAAJ>

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