



## **Tamer Elian Abdel-aal Elian Hamama**

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### **SENIOR PROTECTION AND POWER SYSTEM ENGINEER**

An experienced protection and power system studies engineer and PhD holder with ten years' experience in Power Generation, Power Transmission and Distribution across the Middle East. Carrying out protection concept and detail design and power system studies for key clients including Saudi Aramco, Royal Commission for Jubail-Saudi Arabia, Saudi Electricity Company and Egyptian Electricity Holding Company.. In addition to the professional expertise, having an academic experience as a lecturer of Electrical Engineering in Cairo university, developing many research publications in the field of power system studies and digital protection. A self-motivated individual that thrives in leading and is very successful in teams. Hard worker, multitasker and quality-oriented team player having the ability to learn and develop outstanding outcomes.

### **CORE COMPETENCIES**

- Protection Conceptual Design
- Protection Detail Design
- Protection System Studies
- Protection Coordination Studies
- Relay Setting Calculations
- Relay Configuration and Setting Files Development
- Relay Selection and Specification
- Power System Studies and Analysis
- Power System Simulation
- Power System Planning
- Systematic Problem-Solving
- Customer and Supplier Communications
- Safety and Environmental Compliance

### **EDUCATIONAL AND PROFESSIONAL QUALIFICATIONS**

<b>PhD - Electrical Engineering</b>	Benha University	<b>2014</b>
<b>MSc -Electrical Engineering</b>	Benha University	<b>2010</b>
<b>BSc - Electrical Engineering</b>	Benha University	<b>2005</b>

### **TECHNICAL SKILLS**

- Design of protection systems of combined cycle gas power stations.
- Specifications of protection systems of gas power stations, GIS and AIS substations.
- Conceptual and detail design of secondary systems of GIS and AIS substations from 66kV up to 380kV.
- Conceptual and detail design of secondary systems of medium and low voltage distribution systems.
- Substation investigation and options studies to recommend the most practical and economic solutions.
- Coordination of protective relays, relay setting calculations, relay configuration files for different manufacturers.
- Power system simulation with different simulation tools including ETAP, DigSilent, PTW, CYME, Matlab/Simulink.

- Power system study and analysis including load flow, fault analysis, harmonics, load frequency control, motor starting, energy economics, transient overvoltage and long term stability, voltage and reactive power control and compensation, SVC, STATCOM, DSTATCOM.
- Full awareness of health, safety and environment issues towards zero harm and zero environmental incidents.
- Familiar with international standards for power including IEC, ANSI/IEEE.

### CAREER HISTORY

- Lecturer at Shoubra faculty of engineering, Benha University since September 2014 till now.
- Teaching assistant at Shoubra faculty of engineering, Benha University since January 2006 till August 2014.
- Electrical Engineer in Electra - Control Company [From 1/12/2005 until 31/3/2007].
- Demonstrator (Instructor) in Shoubra Faculty of Engineering-Benha University [From 5/1/2006 until 24/10/2010].
- Electrical Engineer in Electro Mechanical Consulting Group (EMCG) [From 1/2/2010 until 12/2013].
- Assistant Lecture in Shoubra Faculty of Engineering-Benha University [From 24/10/2010 until 20/6/2014].
- Assistant Professor in Shoubra Faculty of Engineering-Benha University [From 24/6/2014 until now].

Duties including:

- 1- Working as an electrical designs engineer for low and medium voltage networks.
- 2- Working as a site engineer and supervision on electrical installations.
- 3- Working as an instructor at the Shoubra Faculty of Engineering –Benha university since 2006 Including:
- 4- Supervision on graduation projects (Design of Distribution Systems).
- 5- Teaching (Advanced automatic control) course.
- 6- Teaching (High voltage engineering- power systems protection) course.
- 7- Teaching (Computer Applications in Power system analysis) course.
- 8- Teaching (Electro-Magnetic Fields) course
- 9- Studying Project Technical Specifications, Scope of Work, Pre-bidding, Post-bidding, and Tendering Documents.
- 10- Power System Analysis and Power System Protection Studies.
- 11- Site Visits and Technical Support for power generation and substation projects.
- 12- Technical visibility studies of power stations and due diligence.
- 13- Substation investigation and options studies
- 14- Renewable Energy alternative resources study.
- 15- Testing and commissioning of power stations and substations.

### ACADEMIC CAREER

<b>Lecturer - Electrical Engineering</b>	Faculty of Engineering at Shoubra, Benha University Egypt	<b>October 2014 – Present</b>
<b>Teaching Assistant -Electrical Engineering</b>	Faculty of Engineering at Shoubra, Benha University Egypt	<b>2010 – Sept 2014</b>
<b>Demonstrator - Electrical Engineering</b>	Faculty of Engineering at Shoubra, Benha University Egypt	<b>May 2011 – Sept 2015</b>

### PERSONAL DETAILS

**Date of Birth:** 19<sup>th</sup> September, 1983  
**Languages:** English, Arabic

**Marital Status:** Married

**Nationality:** Egyptian

## PUBLICATIONS

- [1] Tamer Elyan, Ebrahim .A. Badran, M. A. Abd-Allah and Abdelsalam H. Hamza," Mitigation of the Transient Recovery Voltage on Generator Circuit Breaker during Generator Fed Faults", International Journal of Scientific and Research Publications, Volume 3, Issue 11, November 2013.
- [2] Ebrahim A. Badran, M. A. Abd-Allah, Abdelsalam H. Hamza and Tamer Elyan," A Proposed Transient Recovery Voltage Mitigation Technique For Generator-Circuit-Breaker Fed Faults", J. Electrical Systems, pp. 66-72,2013.
- [3] M. A. Abd-Allah, Ebrahim A. Badran, Tamer Elyan and Abdelsalam H. Hamza," A New Technique For Transient Recovery Voltage Suppression on Generator Circuit Breaker For Generator Fed Faults"International Conference on Electricity Distribution, Stockholm, 10-13 June 2013.
- [4] M. A. Abd-Allah, Tamer Elyan, Ebrahim A. Badran and Abdelsalam H. Hamza,"Transient Overvoltage During Switching a Distributed Wind Generator Connected to Power Grid", Accepted in IOSR Journal of Engineering (IOSRJEN).
- [5] M. A. Abd-Allah, Tamer Elyan, Ebrahim A. Badran and Abdelsalam H. Hamza,"Transient Overvoltage During CB Switching in Distribution Network With Distributed Generators", Accepted in IOSR Journal of Engineering (IOSRJEN).
- [6] Mohamed. A. Ebrahim, Tamer Elyan, Fady Wadie, M. A.Abd-Allah," Optimal design of RC snubber circuit for mitigating transient overvoltage on VCB via hybrid FFT/Wavelet Genetic approach", Electric power system Research, 2017

[7] M. A. Abd-Allah, T.Elyian and Eman Belal," Back Flashover Analysis for Egyptian 500kV and 220 kV Transmission Towers" International Journal of Scientific and Research Publication,Vol.6,Issue 4,2016.

[8]Ebrahim M.A,Elyian T,Wadie F and Abd-Allah M.A," High Frequency Spectrum Analysis of Transient Overvoltage Across VCB Switched Large Induction Motors", Int.Journal of Applied Sciences and Engineering Research Vol.4,Issue 5,2015.

[9] M.S. El-Bages, M. A. Abd-Allah, T.Elyian and Amira. G. Nawar," Energy Stress of Metal Oxide Surge Arrester in GIS Substation Due to Shielding Failure",International Journal of Scientific and Research Publication, Vol.6,Issue 3,2016.

[10] N. El- Mehalawy, M. Awaad, T. Eliyan, M. A. Abd- Allah and S. M. Naga," Electrical properties of ZnO/alumina nano composites for high voltage transmission line insulator", Journal of Materials Science: Materials in Electronics, 13526–13533, springer, 2018.

[11] Ahmed Taher, Abdelrahman Said, Tamer Eliyan and Abdelsalam Hafez," Optimum Design of Substation Grounding Grid Based on Grid Balancing Parameters using Genetic Algorithm",Twentieth International Middle East Power Systems Conference (MEPCON), Cairo University, Egypt,2018.

*References available on request*