

## ASHRAF SAMIR MAHMOUD AWAD

Teaching Assistant  
Zagazig University-Faculty of Engineering  
Electrical Power and Machines Department



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### Career Objective

Seeking to finish Postdoctoral studies at a Multinational University to increase my knowledge at Electrical Engineering especially in these topics:

(Electrical Power System - High Voltage Engineering - Renewable Energy - Power Electronics)

### Work Experience

- **May 2023 – Present: Lecturer and Teacher** at Electrical Power and Machine Engineering Department – Faculty of Engineering - Zagazig University.
- **Feb. 2018 - 2023: Teaching Assistant** at Electrical Power and Machines Engineering Department - Zagazig University.
- **March 2014 – 2018: Demonstrator** at Electrical Power and Machines Engineering Department - Zagazig University.

Main activities and responsibilities are teaching and researching in fields related to subjects:

- High Voltage Engineering.
- Electromagnetic and Electrostatic Fields.
- Electrical Machines Engineering
- Electrical Power Systems Engineering.
- Dynamic Control in Power Systems.
- Electric and Electronic circuits theory.
- Supervised graduation projects for senior students

### Education

- **2018 - 2023:** PhD. in Electrical Power and Machines Engineering Dept., Zagazig University, Zagazig, Egypt.
- **Sept. 2014 - 2017:** Master (M.Sc.) in Electrical Power and Machines Engineering, Zagazig University, Zagazig, Egypt.
  - M.Sc. Title: **Streamer Analysis in Gases**
  - Preliminary Courses: **3.6 of 4 GPA**

- Graduate Courses: Power System Quality, Electric Field, High Voltage, Induction Machine, Economic Power System, HV & LV Power System Protection, Numerical Analysis, JAVA, Electronic Measurement.
- **Sept 2007 - Jul 2012:** B.Sc. in Electrical Power and Machines Engineering, Zagazig University, Zagazig, Egypt.
  - Final Grade: **V. Good with honors, 84.32%.**
  - Graduation Project: Power System Control and Stability
  - Graduation Project Grade: Excellent

### Publication

- [1] A. El-Zein, M. Talaat, **A. Samir**, “**Numerical and simulation model of the streamer inception at atmospheric pressure under the effect of a non-uniform electric field**”, Vacuum, Vol. 160, p.p. 197–204, 2019.
- [2] A. El-Zein, M. Talaat, **A. Samir**, “**Positive streamer in gases: Physical approach from low to high energies**”, Vacuum, Vol. 156, p.p. 469–474, 2018.
- [3] A. El-Zein, M. Talaat, **A. Samir**, “**Streamer in Air: Broadening and Branching**”, Nineteenth International Middle East Power Systems Conference (MEPCON), Menoufia University, Egypt, p.p. 121-126, 2017.
- [4] A. El-Zein, M. Talaat, **A. Samir**, “**Positive Streamer Simulation in Air Using Finite Element Method**”, American Journal of Modern Energy, Vol. 3, p.p. 95-100, 2017.
- [5] A. El-Zein, M. Talaat, A. Samir, “**New approach to breakdown equation in gases based on energy concept from inception stage to arc condition**”, Vacuum, Volume 194, 2021.
- [6] M. Talaat, A. Samir and A. El-Zein, “**Multidimensional Optimization of CSM with Different Algorithms for Investigating the Electric Field in the Vicinity of a Point Electrode,**” in IEEE Transactions on Dielectrics and Electrical Insulation, vol. 30, no. 1, pp. 279-289, Feb. 2023.

### Teaching Courses

- Electric Circuit
- Electrical Field
- High Voltage Engineering
- Mathematics
- Electrical Power System Engineering
- Control and Dynamics of Electrical Power System
- DC Motors

### Area of expertise

- **Working Experiences**
  - **May 2023 – Present: Lecturer and Teacher** at Electrical Power and Machine Engineering Department – Faculty of Engineering - Zagazig University.

- **March 2014 – 2023: Teaching Assistant**, Faculty of Engineering, Electrical Department, Zagazig University, Zagazig, Egypt.
  - Delivered tutorials for the following courses: Power System control, power system, electric field.
  - Supervised graduation projects for senior students
- **Project experiences**
  - **Graduation Project:** "Power System Control and Stability"  
**Supervisor:** Prof. Dr. Mahdi El-Arini  
**Grade:** Excellent
  - **Participate in the graduation project:** "Electrical Distribution in Rural Zones"  
**Supervisor:** Prof. Dr. Abd-Elatief Mohamed El-Zein
- **Training Experiences**
  - **Summer training 2011 at New & Renewable Energy Authority (NREA)**  
Practical training on (renewable energy – biomass - wind energy – Solar Energy – visiting to al-Zafarana wind farm)
  - **Summer training 2010 at canal company for electricity distribution**  
Practical training on (distribution calculation – electrometer – visiting Manufacturing workshop poles – Zagazig engineering)
  - **Summer training 2009 at Fresh Company**  
Practical training on Home Appliances
  - **Training from 4/2/2012 to 26/2/2012 at Jelecom Egypt Training Company**  
Practical training on power system distribution basic (Dialux – Lighting calculation – cables calculation – voltage drop – short Circuit – Etab – AutoCAD)
  - **Training from 3/9/2011 to 25/9/2011 at Jelecom Egypt Training Company**  
Practical training on PLC Applications advanced (microwin –S7- 200 - S7-200 simulator – EKTS – HMI – Digital input/output – Analog input/output – Marker – timers - counters)
  - **Training from 18/7/2010 to 30/7/2010 at Jelecom Egypt Training Company**  
Practical training on (Mikro c program for PIC micro – Digital Input/output 7-seg – LCD – serial communication – interrupt – DC Motor speed control – Protus program)
  - **Training from 10/7/2011 to 14/7/2011 at Industrial Training council (ITC)**  
Practical training on (PLC S7-300 - sematic manager program – Digital input/output – analog input – timers – counters)
  - **Training from 29/8/2010 to 8/9/2010 at Industrial Training council (ITC)**  
Practical training on (distribution wiring – classical control – relays –Contactors – induction motors)

## Training Courses and certification

- Power System Distribution (certify)
- Programmable Logic Control (S7-200) (certify)
- Programmable Logic Control (S7-300) (certify)
- Classic Control
- Microcontroller PIC (certify)
- Microcontroller AVR

## Personal skills

- **Social skills and competences:**
  - Excellent ability to team-working, gained in many situations in which the collaboration between different people is essential; excellent ability to relate with people of different nationalities and cultures gained by attending to international conferences and seminars.
- **Organizational skills and competences:**
  - Excellent ability to organize my own work, setting priorities and taking responsibility, gained during professional experiences devoted to activities scheduling, respecting both deadlines and goals.
  - Able to work on own initiative and as part of a team Proven leadership skills involving managing, developing and motivating teams to achieve their objectives acquired at work.
- **Membership:**
  - Member of the Engineering syndicate of Egypt. (i.e. Community of Egyptian Engineers).
  - Responsible for setting up Electrical Machines and Power system lab during teaching experience.
- **Computer skills:**
  - Strong knowledge and experience in Software/Hardware
  - Microsoft office (Word, Excel, PowerPoint, Windows, internet)
  - Programming languages (JAVA, C, C++, Matlab, Visual Basic)

## Languages

- Arabic: Native Language
- English: IELTS (5)

## Personal Information:

- **Address:** Electrical Power & Machines Department, Faculty of Engineering, Zagazig University, Zagazig, P.O. 44519, EGYPT.
- **Nationality:** Egyptian
- **Date of Birth:** 19/09/1990
- **Military status:** finished

- **Marital status:** Married

### Internet Research

• <b>ORCID:</b>	<a href="https://orcid.org/0000-0002-1000-6225">https://orcid.org/0000-0002-1000-6225</a>
• <b>Scopus ID:</b>	<a href="https://www.scopus.com/authid/detail.uri?authorId=57202222376">https://www.scopus.com/authid/detail.uri?authorId=57202222376</a>
• <b>Researcher ID:</b>	<a href="http://www.researcherid.com/rid/W-8624-2018">http://www.researcherid.com/rid/W-8624-2018</a>
• <b>Mendeley:</b>	<a href="https://www.mendeley.com/profiles/a-samir/">https://www.mendeley.com/profiles/a-samir/</a>
• <b>Research gate:</b>	<a href="https://www.researchgate.net/profile/A_Samir">https://www.researchgate.net/profile/A_Samir</a>

### Academic Referees:

- **Contact Persons**

**Associate Prof. Mohamed Talaat Mohamed**

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Associate Professor of High Voltage Engineering.

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**Prof. Dr. Abd Elatif Mohammed Abd Elatif El-Zein**

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Professor of High Voltage Engineering.

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**Prof. Dr. Mohamed Abdelfatah Farahat**

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## Curriculum vitae of Ashraf Samir

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- \* Furnished upon request
- \* Last update 5-2023
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