Loay Mohamed Ali El-Sayed received the B.Sc. degree in Electrical Power and Machines Engineering from The Higher Institute of Engineering at El-Shorouk City, in 2009, M.Sc., and Ph.D. degrees in Electrical Power and Machines from the Faculty of Engineering, Ain Shams University, Egypt, in 2014 and 2021, respectively. Between September 2009 and September 2021, he was a Teaching Assistant at The Higher Institute of Engineering at El-Shorouk City, El-Shorouk Academy, Egypt. Now, Dr. Loay works as an a assistant professor at the same institute. His research interests include distance protection in transmission lines, power system stability, power system reliability, renewable energy, Power Swing Blocking and Unblocking, Phasor Measurement Units (PMUs), High Impedance Faults (HIFs).

Contact Information

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Date of birth: 10/08/1987
Nationality: Egyptian
Social Status: Married
Military Status: Final Exempted

Qualifications

- **Doctor of Philosophy (Ph.D.)**
  Received: September 2021
  Cairo University, Giza, Egypt
  Electrical Power and Machines Engineering Department
  Thesis Title: "Enhancing the Performance of Distance Protection During Power Swing"

- **Master of Science (M.Sc.)**
  Received: December 2014
  Ain Shams University, Cairo, Egypt
  Electrical Power and Machines Engineering Department
  Thesis Title: "Impact of Distributed Generation Allocation & Sizing on Reliability Indices of Electrical Distribution Networks"

- **Bachelor of Science (B.Sc.)**
  Higher Institute of Engineering at El-Shorouk City, Egypt
  Electrical Power and Machines Engineering Department
  Project: Electrical Distribution System
  Graduation Year: 2009
  Appreciation: Excellent with Honors

Field of Expertise

1. Power System Analysis
2. Power System Stability
3. Power System Reliability
4. Distance Protection in Transmission Lines
5. Renewable Energy
6. Power Swing Blocking and Unblocking
7. Phasor Measurement Units (PMUs)
8. High Impedance Faults (HIFs)

Positions Held

Sept. 2021 – Present **Assistant Professor**

Higher Institute of Engineering at El-Shorouk City, Egypt
Electrical Power & Machines Engineering Department.
Present lectures in High voltage engineering, Electric protection and switchgear, Power system analysis, and Electrical specifications and standards

Sept. 2014 - Sept. 2021 **Teaching Assistant**

Higher Institute of Engineering at El-Shorouk City, Egypt
Electrical Power & Machines Engineering Department.
Green Building, Renewable Energy, Protection, Measurements.
Present lab instruction and grade assignments for 25-30 students in the undergraduate course.
Specialized in Protection, Power system, Simulations, and Control Labs.

Sept. 2009 – Sept. 2014 **Demonstrator**

Higher Institute of Engineering, EL-Shorouk City, Egypt
Electrical Power & Machines Engineering Department.
Protection, High-Voltage, Control, Measure, Electric Circuits, Renewable Energy, Power System, and Planning.

Areas of Education Expertise

1. Power System Analysis
2. Switchgear and Protection
3. Renewable Energy
4. MATLAB Platform
5. Electromagnetic Transients Program (ATP/EMTP) Package
6. Technical Specification and Standards
7. Electric Power Generation
8. Electronic Measurements
9. High Voltage Engineering
10. Humanities

Industrial Expertise

- Making conceptual, shop, and as-built drawings for many projects such as malls, hospitals and schools.
- Industrial and professional experience is a plus.
- Hardworking and completing all projects to an excellent standard, on time, and on budget.
- Ability to develop and secure sponsored research that involves both undergraduate and graduate students.
- Ability to teach a variety of graduate and undergraduate courses and develop new courses or course components.
- Strong communication skills and the ability to work collegially and collaboratively with diverse internal and external constituencies.
- Background in the principles and practices of electrical generation, engineering design, and construction.

Publications

1. Ahmed R. Abul'Wafa, Loai M. Qasem, Aboul'Fotouh El'Garably, A.T.M. Taha, " Reliability Worth Assessment of Distribution System with Wind Turbine Generation ", Sixteenth International Middle East- Power System Conference (MEPCON'14) Faculty of Engineering-Ain Shams University, December 2014.

2. Loai Mohamed Ali El-Sayed, Doaa Khalil Ibrahim, Mahmoud Ibrahim Gilany, Aboul'Fotouh El'Garably "An accurate technique for supervising distance relays during power swing", Vol. 21, No. 3, March 2021, pp. 1279-1290 ISSN: 2502-4752. http://doi.org/10.11591/ijeecs.v21.i3.pp1279-1290

3. Loai Mohamed Ali El-Sayed, Doaa Khalil Ibrahim, Mahmoud Ibrahim Gilany, Aboul'Fotouh El'Garably " Enhancing distance relay performance using wide-area protection for detecting symmetrical/unsymmetrical faults during power swings " Volume 61, Issue 9, September 2022, Pages 6869-6886. https://doi.org/10.1016/j.aej.2021.12.031

Skills

Language

- Arabic: Native Language.
- English: Professional

Computer Experience

- MATLAB Platform.
- Electromagnetic Transients Program (ATP/EMTP) Package
- Electrical Transient Analyzer Program (E-TAP).
- NEPLAN Program ® Power System Analysis and Engineering, Zurich, Erlenbach, Switzerland.
- AutoCAD and Revit MEP Electrical.
- Dialux EVO.
- Ecodial.
- ICDL.

Personal Qualities

- Strong Communication skills.
- Strong Presentation skills.
- Self-learner and creative.
- Hard worker and can work under pressure.
- Work in a team and quite well to be a team leader.

References

Available upon Request

Thank You for Handling My C.V.