

**Name: Mahmoud Soliman Abd Elfattah**

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## **Education:**

❖ **PhD in Engineering mathematics ( in progress from 2022)**

❖ **Master degree in Engineering mathematics (MSc) (1/9/2021)**

Faculty of Engineering, Ain shams University, Egypt.

Thesis title “ optimal reconfiguration of radial distribution power systems using a heuristic optimization approach “

❖ **Diploma Degree in Engineering mathematics in (2017) with CGPA 3.98**

❖ **Bachelor Degree in Electrical Power and Machines Engineering, (7/2014)**

Faculty of Engineering, Ain shams University, Egypt.,

- Total grade: **Excellent**. (88%) { 9<sup>th</sup> of 2014 power class }
  - Grade each year: **Excellent**
  - Graduation project: power distribution for an industrial plant.
  - Project grade: **Excellent**.
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## **Publications**

- “Distribution Power System Reconfiguration Using Whale Optimization Algorithm,” Int. J. Appl. Power Eng. IJAPE, vol. 9, no. 1, pp. 48–57, Apr. 2020, doi: 10.11591/ijape.v9.i1.pp%p. <http://ijape.iaescore.com/index.php/IJAPE/article/view/20265> (Q3 )
- Mahmoud Soliman;Hamdy Ahmed;Niveen Badra;Islam Samir, " Effects of fractional derivative on fiber optical solitons of  $(2 + 1)$  perturbed nonlinear Schrödinger equation using improved modified extended tanh-function method ", Optical and quantum electronics, 2024 (Q2)
- Mahmoud Soliman;Hamdy Ahmed;Niveen Badra;Islam Samir, " Dispersive perturbations of solitons for conformable fractional complex Ginzburg–Landau equation with polynomial law of nonlinearity using improved modified extended tanh-function method ", Optical and quantum electronics, 2024(Q2)
- Mahmoud Soliman;Hamdy Ahmed;Niveen Badra;Islam Samir ,”Highly dispersive gap solitons for conformable fractional model in optical fibers with dispersive reflectivity solutions using modified extended direct algebraic method” , AIMS math ,2024 (Q1)

## Work Experience

### ❖ **Ain shams university , Faculty of Engineering 1/2017 – present**

**Job title :** Teacher assistant in Engineering mathematics department

**Courses for both mainstream and credit programs:**

- Calculus ( I & II& III) for the old laws
- Math ( 1 & 2 ) (PHM012 &013)
- Differential equations ( PHM 113s & 112s)
- Probability and statistics ( PHM111 & 111s)

**Job title:** Academic advisor for freshmen (2022/2023 -2023 /2024)

**Job Responsibilities :**

- Handling with students to get familiar with by faculty laws 2018 ,2023.
- Solving students' problems (Academic and social sometimes ).
- Gives advice to students to choose a suitable department.
- Describe suitable training that could help them in the working environment.
- Helping students in Registration and Add/Drop courses.
- Make them aware of faculty activities.

### ❖ **COFFOR Misr for building systems 23/8/2014- 1/2017**

**Job Title:** Electro-mechanical engineer

**Reporting to:** Projects Manager

**Projects Handled:** Black Ball Academy – 5<sup>th</sup> Settlement

**Work responsibilities:**

- Performing progress bills.
- Estimation works.
- Following up sub-contractors.
- Document Control.
- supervising the technicians at site
- making some quantity surveying
- make some modifications on the main design
- make design drawings

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## Training courses : \_

✓ -Credit hours and academic advising courses from TDC at Ain shams university (2/4/2021 -2/5/2021)

- ✓ e-learning by Moodle (TDC from 2/4/2021-2/5/2021)
- ✓ -Advanced skills of PowerPoint presentation (TDC from 20/4/2020-21/4/2020)
- ✓ -Scientific Writing (TDC from 29/8/2022-30/8/2022)
- ✓ الجوانب القانونية في الأعمال الجامعية للهيئة المعاونة (TDC from 12/8/2024-13/8/2024)
- ✓ Distribution course (3 brothers company)
- ✓ Schnider electric sessions ( circuit breaker – plc)
- ✓ 2011 introduction to matlab
- ✓ Dec 2010 ICDL certificate
- ✓ 2010 basic electronics (participate in student activity)

## **Internship Experience (As student)::**

14/7/2013 —→ 25/7//2013

### **Elsewedy electric group**

- Elsewedy cables ( egytech )
- Elsewedy transformers
- United industrial company (UIC)
- ISKRA EMECO
- Elsewedy engineering co.
- Elsewedy isolator

11/8/2013 —→ 29/8/2013

### **Arab organization for industries ( motors unit )**

### **Languages:**

- Arabic: Native language.
- English: Very good written and spoken.

### **Computer Skills:**

- Dialux.
- AutoCad.
- Microsoft windows
- MS Office: (All versions).
- Internet applications.
- Visual Basic.

### **Personal Data:**

- Birth Date: 15-6-1992.
- Marital Status: Single.
- Nationality: Egyptian.
- Military service: Exempted.

### **References**

- Furnished upon Request.