

# Marwa Abd Elaziz Elsayed

## Personal Information:

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**0224977892.**
- **Nationality:** Egyptian.
- **Marital status:** Single

## Education:

- Ph.D. degree in pure mathematics in zagazig university 2026
- Master degree in pure mathematics in zagazig university 2023
- Studying math and computer science at faculty of science, Zag zig University.  
Predicted graduation date: June, 2017. Current GPA: 2.9
- Graduation Project: signal separation.
- Mit Abo Khalid Secondary School. June, 2013.  
Percentage: 90.65%.

## Career Objective:

Motivated PhD holder in Pure Mathematics with strong teaching and research experience in nonlinear dynamics and differential equations, seeking an academic position to contribute to teaching excellence and scientific research.

## Experiences:

- Teacher assistant at high institute of computers and information Fifth Settlement, Egypt from 2019 still now.  
( I taught Differential equation, Ordinary differential equation, Math1, Math2, Math3, Statistics and Probabilities, Linear Algebra, Real Analysis, and Discrete mathematics ...)
- Work at elshrook academy as part time from 10/2022 to 6/2023.

## Research publications:

- El-Sayed, A. T., Hussein, R. K., Amer, Y. A., & El-Sayed, M. A. (2026). Nonlinear dynamics, stability, and vibration suppression of magnetically levitated systems under a combined control strategy. *Journal of Low Frequency Noise, Vibration and Active Control*, 14613484261434302.

- Elsayed, M. A., Amer, Y. A., & EL-Sayed, A. T. (2025). Negative Velocity Feedback Control of a Nonlinear Oscillating External Panel. *Bulletin of Faculty of Science, Zagazig University*, 2025(4), 27-41.
- EL-Sayed, A. T., Hussein, R. K., Amer, Y. A., & EL-Sayed, M. A. (2025). Stability Enhancement and Bifurcation Mitigation in Nonlinear Inner Plate Oscillations Through PD Control. *Machines*, 13(9), 828.
- Alluhydan, K., Amer, Y. A., EL-Sayed, A. T., & EL-Sayed, M. A. (2024). Controlling the Generator in a Series of Hybrid Electric Vehicles Using a Positive Position Feedback Controller. *Applied Sciences*, 14(16), 7215.
- Alluhydan, K., Amer, Y. A., EL-Sayed, A. T., & EL-Sayed, M. A. (2024). The Impact of the Nonlinear Integral Positive Position Feedback (NIPPF) Controller on the Forced and Self-Excited Nonlinear Beam Flutter Phenomenon. *Symmetry*, 16(9), 1143.
- Amer, Y. A., & Abd EL-Salam, M. N. (2022). Negative Derivative Feedback Controller for Repressing Vibrations of the Hybrid Rayleigh-Van der Pol-Duffing Oscillator.
- Amer, Y. A., Abd EL-Salam, M. N., & EL-Sayed, M. A. (2022). Behavior of a Hybrid Rayleigh-Van der Pol-Duffing Oscillator with a PD Controller. *Journal of applied research and technology*, 20(1), 58-67.
- Elsayed, M. A., & Amer, Y. A. (2023). The behavior of the vibration for nonlinear system with max active controller. *Bulletin of Faculty of Science, Zagazig University*, 2023(2), 23-32.
- Amer, Y. A., El-Sayed, A. T., & EL-Sayed, M. A. (2023). Mix active control feedback of a continuously rotating shaft's nonlinear oscillations through simultaneous resonance.

#### Activities:

#### Certificates:

- .Certificate of human development
- Certificate course English academy.
- Certificate of completion (Microsoft) .
- Certificate of Innovegypt.

#### Courses & Training

- Matlab zagazig University.  
25,jule – 25, August.2016.
- Emergency Management course.  
9 august – 16 august,2014.

## Skills:

### Computer skills:

- Expert in mathematical modeling and analysis
- Proficient in MATLAB, C++, C#, HTML, CSS
- Advanced communication and presentation skills
- Leadership and team collaboration

### languages skills:

- Arabic: Mother language.
- English: Very good.

## References:

Available upon request.