

**1. Name: Emad Abd-Elaty Mohamed,** Assistant Professor, Department of Communications and Computer Engineering, Higher Institute of Engineering, El-Shorouk Academy.

**2. Degrees:**

- B.Sc. (Electronics, Communications and Computer engineering) 2006  
Higher Institute of Engineering, El-Shorouk Academy, Cairo, Egypt
- M.Sc. (Electronics and Communication Engineering) Faculty of 2014  
Engineering, Minoufiya University, Cairo, Egypt.
- Ph.D. (Electronics and Communication Engineering) Faculty of 2020  
Engineering, Ain Shams University (ASU) , Cairo, Egypt.

**3. Years of Service on Faculty: 3**

- 7/2021 - Present Assistant Professor

**4. Other Experience:**

- None.

**5. Consulting Activities (selected)**

- Design, supply, and installation of low current systems (Fire alarm – PBX – CCTV – Nurse call – Networks – MATV).

**6. States in which registered:**

- Cairo, Egypt.

**7. Principal publications of last 5 years (selected):**

- Abd-Elaty, E., Zekry, A., El-Agooz, S. et al. Underlay Spectrum Sharing with L-Band Distance Measuring Equipment for Aeronautical Communications. *Wireless Pers Commun* 128, 2363–2377 (2023). <https://doi.org/10.1007/s11277-022-10045-0>.
- Abd-Elaty E, Zekry A, El-Agooz S, Helaly AM. Nested code division multiple access for distance measuring equipment interference mitigation in L-band digital aeronautical communication system. *Int J Commun Syst*. 2021.
- E. Abd-Elaty, A. Zekry, S. El-Agooz and A. M. Helaly, "Cognitive Radio Techniques for Utilizing the Primary L-Band Distance Measuring Equipment for Aeronautical Communications," in *IEEE Access*, vol. 8, pp. 124812-124823, 2020.
- Elaty, E.A., Abd-Elnaby, M., Abd El-atty, S.M. et al. Performance Analysis and Optimization Based on Adaptive Modulation and Chaotic Interleaving for Helicopter-Satellite Communications. *Wireless Pers Commun* 99, 597–617, 2018.

## **8. Scientific and professional societies of which a member**

- Egyptian Engineers Syndicate.

## **9. Honors and awards:**

- Certificate of Achievement in Recognition of Competition Achievement For the International Competition on Smart Innovation Technologies (IC-SIT 2023).

## **10. Institutional & professional service in last 5 years:**

- Participate in the preparation of the regulation (2019) for the Department of Communication and Computer Engineering in the Higher Institute of Engineering at El-Shorouk Academy.
- Member of the Exams Questions Receiving committee in the Higher Institute of Engineering at El-Shorouk Academy.
- Graduation Project Coordinator for Communication and Computer Engineering department in the Higher Institute of Engineering at El-Shorouk Academy.
- Leadership and Organization standard Coordinator for Communication and Computer Engineering department.

## **11. Professional Development Activities in the last 5 years:**

Attended and met the required criteria to complete a training courses in the following:

- Quality standards in teaching.
- Effective teaching skills.
- Fundamentals of Digital Transformation Certificate (FDTC).
- External audit in higher education institutions
- Techniques of preparing a self-evaluation study for programs.
- Advanced analog and digital telecommunications Labs.
- Design of electrical systems for building and constructions.
- Huawei Network Devices