

# Dr. Manal Mansour Abdelmawgood Ali

Lecturer of Computer Systems Engineering

Department of Computer Systems Engineering — Faculty of Engineering at Shoubra, Benha University

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## PROFESSIONAL PROFILE

Lecturer of Computer Systems Engineering at the Faculty of Engineering at Shoubra, Benha University, with over thirteen years of academic experience spanning teaching, research, and student supervision. Holds a PhD in Computer Systems Engineering with a specialization in blockchain-based e-government systems, building on earlier graduate work in visual cryptography. Research interests center on Blockchain Technology, Smart Contracts, Information Security, and the design of secure decentralized applications. Combines a strong theoretical foundation with hands-on development skills in Solidity, Ethereum, and modern web frameworks. Seeking a Lecturer position at an Egyptian university to contribute to teaching, postgraduate supervision, and applied research in computer systems engineering and cybersecurity.

## PERSONAL INFORMATION

**Date of Birth:** 19 June 1988  
**Nationality:** Egyptian  
**Marital Status:** Married  
**Address:** New Cairo, Cairo, Egypt

## EDUCATION

**Doctor of Philosophy (PhD) in Computer Systems Engineering** | 2024  
*Faculty of Engineering at Shoubra, Benha University, Egypt*  
**Thesis:** "A Framework for Distributed Ledger Blockchain-Powered E-government System"

**Master of Science (MSc) in Computer Systems Engineering** | 2017  
*Faculty of Engineering at Shoubra, Benha University, Egypt*  
**Thesis:** "A Scheme for Safeguarding Images by Visual Cryptography with Multiple Shares"

**Bachelor of Science (BSc) in Computer Systems Engineering** | 2010  
*Faculty of Engineering at Shoubra, Benha University, Egypt*

## ACADEMIC POSITIONS

**Lecturer** | 2024 – Present  
*Department of Computer Systems Engineering, Faculty of Engineering at Shoubra, Benha University*

**Assistant Lecturer** | 2017 – 2024  
*Department of Computer Systems Engineering, Faculty of Engineering at Shoubra, Benha University*

**Demonstrator (Teaching Assistant)** | 2012 – 2017  
*Department of Computer Systems Engineering, Faculty of Engineering at Shoubra, Benha University*

## RESEARCH INTERESTS

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- Blockchain Technology, Smart Contracts, and Decentralized Applications (DApps)
- Blockchain-based E-Government Systems and Public-Service Frameworks
- Visual Cryptography and Secret-Sharing Schemes
- Information Security, Network Security, and Cryptography
- Secure Image Communication over Insecure Channels

## PUBLICATIONS

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Full publication list available on [Google Scholar](#).

1. Mansour, M., Salama, M., Helmi, H., & Mursi, M. F. M.. "Towards a Secure Blockchain-based E-Government Framework in Egypt: A Case Study." *Engineering Research Journal, Faculty of Engineering at Shoubra*, Vol. 53, Issue 3, pp. 10–21, 2024.
2. Mansour, M., Salama, M., Helmi, H., & Mursi, M. F. M.. "In-Depth Examination of Gas Consumption in E-Will Contract: A Case Study." *Journal of Engineering Research*, Vol. 8, Issue 1, 2024.
3. Mansour, M., Salama, M., Helmi, H., & Mursi, M. F. M.. "A Survey on Blockchain in E-Government Services: Status and Challenges." *International Journal of Engineering Research & Technology (IJERT)*, 2023.
4. Salama, M., Mursi, M. F. M., & Aly, M. (Mansour). "Safeguarding Images over Insecure Channel Using Master Key Visual Cryptography." *Ain Shams Engineering Journal*, Vol. 9, Issue 4, pp. 3001–3013, 2018.
5. Mursi, M. F. M., Salama, M., & Mansour, M.. "Visual Cryptography Schemes: A Comprehensive Survey." *International Journal of Emerging Research in Management & Technology*, Vol. 3, 2014.

## SUPERVISION

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### Graduation Projects (Current)

- **AI-Powered ERP Systems** — Undergraduate graduation project (in progress).

## TEACHING EXPERIENCE

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Designed and delivered lectures, tutorials, laboratory sessions, and assessments for undergraduate students in the Department of Computer Systems Engineering. Courses taught include:

- Computer Networks
- Advanced Networks
- Information & Network Security
- Introduction to Computer Science

## TECHNICAL SKILLS

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- **Blockchain Development:** Solidity, Ethereum, Smart Contracts, the broader Blockchain ecosystem (wallets, gas optimization, DApp deployment).
- **Web Development:** JavaScript, Node.js, React.
- **Networking & Simulation:** Cisco Packet Tracer.
- **Security & Cryptography:** Visual cryptography schemes, classical and modern cryptographic protocols, secure communications.

## CERTIFICATIONS & TRAINING

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- ICDL — International Computer Driving Licence
- IELTS — International English Language Testing System (Score: 6.0)
- TOEFL — Test of English as a Foreign Language

## LANGUAGES

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- **Arabic** — Native
- **English** — Professional working proficiency (IELTS 6.0)

## REFERENCES

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*Available upon request.*