



# Mohamed Abdelsattar Marzouk Ahmed

**Date of birth:** 20 May 1992


**Nationality:** Egyptian

## CONTACT

 Giza, Egypt (**Home**)

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## ABOUT ME

As an accomplished Teaching Assistant, I bring a rich blend of academic expertise and instructional proficiency. With a keen commitment to fostering an engaging learning environment, I have guided students through complex concepts, fostering critical thinking. My dedication to educational excellence, combined with a passion for research, drives my pursuit of a Ph.D. scholarship. Eager to contribute my experience and enthusiasm to an advanced academic setting, I am poised to embark on a transformative journey of research and scholarly exploration.

## WORK EXPERIENCE

**APR 2016 – CURRENT** Benha, Egypt

**Teaching assistant** Faculty of Engineering Benha University

- Communication Systems I & II
- Design Microelectronics
- Computer fundamental
- Operating System

**JUN 2018 – CURRENT** Giza, Egypt

**Research engineer** Orange Innovation Egypt

- Collaborative IoT framework (Capacity, potential evolutions, and use-cases)
- Flooding simulator in Collaborative IoT
- Collaborative IoT Localization for Smart metering
- Collaborative IoT selective downlink by location prediction based on historical data
- Human Mobility Model based on Markovian waypoint
- Keypad cloning using Acoustic data transmission system using SoniTalk open source framework
- Resilient Mesh Network over LoRa devices using updated LoRaLayer2 open source framework

## EDUCATION AND TRAINING

**SEP 2009 – JUL 2014** Benha, Egypt

**BSc in Electrical Engineering** Faculty of Engineering, Benha University

**MAR 2016 – JUL 2023** Benha, Egypt

**MSc in Electrical Engineering** Faculty of Engineering, Benha University

**Thesis** Smart Sensing Using Mobile Phone Application

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Arabic

**OTHER LANGUAGE(S):** English

## DIGITAL SKILLS

Microsoft Office | programming: Python, MATLAB and SQL | Linux | Embedded System | Good knowledge of Embedded C/C++ | GIT version control, Linux Command | PCB Design & Layout | Microcontrollers (Arduino - PIC)

## ADDITIONAL INFORMATION

**Publications**

**[Controlled Redundancy Schemes in Collaborative IoT by Smartphones](#)**