

Norhan Abu-Shakra

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Education

Postgraduate Diploma in Telecommunications and Information Engineering, National Telecommunication

Institute (NTI)

(Aug 2023 – Aug 2024)

Graduation Project: Sustainable Smart Cities future, **Grade: A**

Conducted in-depth research on the conceptual framework, technologies, and networking infrastructure of smart sustainable cities. Developed practical applications through the design and simulation of a waste management system and the prototyping of a smart greenhouse system. Aligned project outcomes with Egypt's strategic vision for sustainable urban development.

Total GPA: 3.58

Bachelor of Communication and Electronics Engineering, Ain shams University

(Sep 2014 – Jul 2019)

Graduation Project: Satellite Communication Embedded system, **Grade: Excellent**

The project is to design a full duplex communication embedded system to be constructed on a cube satellite, which is *under the supervision of* the National Authority for remote sensing & space science (NARSS).

Cumulative Grade: Good

Employment History

Freelancing and Soft skills Part time instructor at Digital Egypt Builders Initiative (DEPI)

(Sep 2025 – Till now)

- Designed and led workshops on portfolio building, personal branding, freelancing platforms, pricing, proposals, negotiation, and client management.
- Guided participants in developing their final presentations and professional profiles, blending practical skills with mentorship to prepare them for real freelancing opportunities.

Senior Telecommunication instructor at NASS Academy, WE Applied Technology Schools

(Oct 2023 – Sep 2025)

- Oversee and provide guidance to telecommunications instructors across multiple WE Applied Technology Schools.
- Monitor teaching quality and ensure consistency in training programs across schools.
- Mentor and support junior instructors to enhance their teaching effectiveness.
- Evaluate and provide feedback on lesson plans and teaching methodologies. Create and maintain high-quality training

FTTH Site Engineer Trainee at Digitize for ICT Infrastructure

(Nov 2022 – Mar 2023)

- Site surveys and planning for FTTH deployments.
- Supervising and coordinating fiber optic cable installation activities (aerial, underground, in-building)
- Performing fiber optic cable splicing and termination
- Testing and commissioning of FTTH infrastructure

Technical Support Specialist at Telecom Egypt (WE)

(Dec 2020 – Sep 2021)

- Responding to user inquiries and troubleshooting technical problems via phone.
- Configuring and troubleshooting network connectivity problems

Courses and Training

Broadband Optical Fiber networks track at NTI (National Telecommunication Institute)

Optical Fiber Network Planning and Installation - Data Network essentials – HCIA/Access - HCIA/Transmission

2D Graphics Intensive track for 3 months at ITI (Information Technology Institute)

Designing concepts by using adobe programs (photoshop, illustrator, and aftereffects)

Trainee at National Air Navigation Services Company

Instrument Landing System ILS - Satellite Communication Systems - Surveillance Equipment.

Electrical/Avionics Aircraft Systems Familiarization Course at Egypt Air Training Academy.

Duration: 30 hours / 5 days

Theoretical part and Aircraft maintenance workshops.

Trainee at The Egyptian Company for Airports

Gained knowledge about the transmission and distribution of Electricity (towers, cables, insulators, transformers).

Key Skills

Technical skills:

- Good in all areas of Microsoft Office, including Excel, Word, and PowerPoint.
- Adobe design programs (Photoshop, Illustrator, After Effects, etc.)
- FTTH Designing and planning.
- Competencies based learning.
- Teaching effective strategies.
- Google Earth Pro and Passloss 4.
- AutoCAD.
- Electronics circuits design
- PCB Welding process.
- Light current surveillance, Access control and fire alarm systems.
- Fast Reporter.
- Design Thinking.
- UI/UX basics.
- Figma.

Soft skills:

- Freelancing skills.
- Presentation skills.
- Leadership skills and problem-solving.
- High level of Business English.
- Communication skills, both written and verbal.
- Project management Fundamentals (PMP).
- Monitoring skills.
- Statistical analysis.
- Time management.

Extracurricular Activities

Envarious / International Earth Day

Registration Volunteer

Maker Faire Cairo'19

Photographer Volunteer

APEC (Associative Power Engineering Community)

Multimedia Member

References available upon request