Mohamed Tarek Abdelhady

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OBJECTIVE

Communications Engineering student (3rd year) with focus on embedded systems, PCB design, and hardware development. Active IEEE and GDSC member.

EDUCATION

- Bachelor's Degree in Communications Engineering

    University: Higher Institute of Engineering and Technology in Manzala

    Expected Graduation: 2026

  - Relevant Skills: Arduino, C/C++ Programming, Python, Control Systems, Electronics Design, PCB Design.

INTERNSHIPS

- **3M Company**
Internship Duration: 160 hours, *Start Date:* August 1, 2024

- **Petrobel (Belayim Petroleum Company)**
Internship Duration: 56 hours, *Start Date:* July 12, 2025

EXPERIENCE

- **PROFESSIONAL TRAINING :-**   (offline)
  - CCNA (Cisco Certified Network Associate): 24 hours, 20/7/2024
  - Python & Machine Learning: 24 hours, 14/6/2025
  - Web Developer by WordPress: 24 hours, 14/6/2025

- **PROFESSIONAL DEVELOPMENT :-**   (online)
  - Information Security: 2 hours, 25/7/2023
  - Python: 30 hours, 13/7/2022
  - Printed Circuit Board (PCB) Design: 6 hours, 30/7/2022
  - Arduino IDE: 90 hours, 12/5/2021

- **PROFESSIONAL CERTIFICATE:-**
  - Linux Operating System: 20/8/2024 –11/9/2024
  - Home Automation Training: 1/7/2024–11/8/2024

- Network Fundamentals L1:	1/7/2023–15/7/2023
- Web Developer L1:	1/7/2023–15/7/2023
- Google Digital Marketing:	20/8/2022–5/9/2022

SKILLS

• **Technical Skills:-**

- Programming Languages: C, C++, Python

- Development Tools: **Git, GitHub, Visual Studio, Arduino IDE.**

- Simulation Software: Multisim , Proteus , Fritzing , TinkerCAD , Matlab

- PCB Design: Altium Designer , Proteus, PCB Toolkit , FreeCAD

- Others: Digital Electronics, Circuit Design , Windows OS , Microsoft Office , Digital Marketing •

Soft Skills:-

- Creativity	- Technical leadership
- Commitment	- Self-motivation
- Initiative	- Working under pressure
- Team building	- Problem solving

MEMBERSHIP

- • Member – IEEE (Institute of Electrical and Electronics Engineers)
- • Member – Technical Team Member – GDSC Manzala

PROJECTS

• Self-Directed Shower Tray Project – Designed a smart tray solution for mobile environments using satellite signal tracking.

• Smart Assistive Glasses – Wearable tech for the visually impaired using ultrasonic sensors and haptic feedback.

• RFID and Person Counter – Room monitoring using RFID cards and ultrasonic sensors for smart lighting and attendance.

• Bluetooth-Based Smart Home Controller – Arduino system to control devices via Bluetooth commands.

LANGUAGES

- Arabic: Native

- English: C1 (Advanced)

- French: A1 (Beginner)