

Mohamed Tarek Abdelhady Ali

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OBJECTIVE

Third-year Communications Engineering student at the Higher Institute of Engineering and Technology in Manzala, with a strong passion for electronics, embedded systems, control systems (Classic Control, PLC), PCB design, Arduino-based hardware development and hardware troubleshooting. Active member of IEEE and GDSC Manzala Technical Team.

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:-

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|-----------------------------|----------------------|
| - 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 – GDSC Manzala (Google Developer Student Club), Technical Team

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: Mother Tongue
- English: Advanced
- French: Beginner