

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, GDSC Manzala Technical Team, and a team leader Skoon 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

EXPERIENCE

• PROFESSIONAL TRAINING :- (Offline Training)

- 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

- Digital electronics
- Electronic systems
- Electronic circuit design
- Windows Operating System
- Microsoft Word, Excel, PowerPoint
- Digital Marketing

• **SOFT Skills:-**

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

MEMBERSHIP

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

PROJECT

- **Self-directed Shower Tray Project** : Designed a self-guiding solution for a shower tray, ideal for use on ships and mobile trucks. The project involved working on the connections, programming, and remote implementation, contributing to advancements in satellite signal tracking accuracy.

- **Smart Assistive Glasses for the Visually Impaired** : Designed a wearable assistive device for visually impaired individuals using ultrasonic sensors, buzzers, and vibration motors. The device detects obstacles and provides haptic and auditory feedback to the user.

- **RFID-and-person-counter** : Developed a system that uses ultrasonic sensors and RFID cards to monitor room occupancy and control lighting. The system tracks entry and exit times and logs data for efficiency and attendance purposes.

- **Bluetooth-Based Smart Home Controller**: Created a smart home system for controlling up to four lights or fans via Bluetooth commands. The system integrates Bluetooth communication with Arduino to enable remote operation of household devices.

LANGUAGES

- Arabic: Mother Tongue
- English: Advanced
- French: Beginner