

Mohamed Tarek Abdelhady Ali

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OBJECTIVE

Third-year Communications Engineering student at the Higher Institute of Engineering and Technology in Manzala. Passionate about electronics, embedded systems, and Arduino-based projects. Proven leadership experience and strong technical skills. Member of IEEE, GDSC Manzala Technical Team, and Skoon Team (Team Leader).

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, Electronics Design

EXPERIENCE

- **PROFESSIONAL TRAINING :-** (offline)
 - CCNA (Cisco Certified Network Associate): 24 hours, 20/7/2024
- **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 Operation 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 : 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)
 - PCB Design(Altium Designer , Proteus)

- Digital electronics
- Electronic systems
- Electronic circuit design
- Windows Operation 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 of 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.
- **Blind-glasses-39 Project** : 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.
- **Smart-Home-4-Line** : 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