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), and PCB design. Skilled in Arduino-based hardware development and hardware troubleshooting. Demonstrated leadership as a team leader in multiple student initiatives. Active member of IEEE, GDSC Manzala Technical Team, and 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 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 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 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   - Technical leadership

- Commitment   - Self motivation

- Initiative   - Working under pressure

- Team building   - Problem solving

- Troubleshooting

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