

Mohamed Tarek Abdelhady Ali

Communications Engineer

CONTACT INFORMATION

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SUMMARY

A third-year communications engineering student at the Higher Institute of Engineering and Technology in Manzala. Passionate about developing advanced electronics and Arduino projects, with a proven track record of technical leadership and team collaboration, IEEE Member, GDSC Manzala Technical Team Member, Skoon Team Member and Team Leader.

EXPERIENCE

- PROFESSIONAL TRAINING :- (offline)

- CCNA : 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) : 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:-**

- TinkerCad
- Arduino IDE
- Python
- C programming
- Visual Studio Code
- Windows Operation System
- Linux Operation System
- Ubuntu Operation System
- Microsoft Word, Excel, PowerPoint
- PCB Design
- Digital Marketing

- **Soft Skills:-**

- Troubleshooting
- Problem-solving
- Technical Leadership
- Team Building
- Working under pressure
- Self-motivation and creativity
- Commitment and initiative

EDUCATION

- Bachelor's Degree in Communications Engineering

University : Higher Institute of Engineering and Technology in Manzala

Expected Graduation: 2026

- Gained extensive experience in electronics, Arduino IDE, C programming, Python

MEMBERSHIP

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

EPROJECTS

- Gas Leak Detection Project: Designed and implemented an early detection system for gas leaks.
- 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.
- Blind-glasses-39 Project: Developed an assistive device to help visually impaired individuals navigate safely by detecting obstacles using ultrasonic sensors. The device provides real-time feedback through vibration motors and a buzzer to alert the user of nearby objects.
- 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

PERSONAL INFORMATION

- Date of Birth : 22 May 2003
- Nationality : Egyptian