

Mohamed Tarek Abdelhady

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OBJECTIVE

Communications Engineering student (4rd year) with focus on embedded systems, control systems(Classic Control , PLC), PCB design, and hardware development. Active IEEE and GDSC member.

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, 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
- **HA (HASSAN ALI CONSULTING GROUP)**
Internship Duration: 140 hours, *Start Date:* August 13, 2025

EXPERIENCE

- **PROFESSIONAL TRAINING** (offline)
 - Classic Control, PLC, Motor Drive & Panel Building 140 hours,13/8/2025
 - 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 , Ladder Diagram
- Development Tools: Git, GitHub, Visual Studio, Arduino IDE.
- Simulation Software: Multisim , Proteus ,Fritzing , TinkerCAD , Matlab , EKTS , CAD_SIMU , Tiabortal.
- PCB Design: Altium Designer , PCB Toolkit , FreeCAD
- Others: Digital Electronics, Circuit Design , Windows OS , Microsoft Office , Digital Marketing

• Soft Skills

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

MEMBERSHIP

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

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: Native
- English: C1 (Advanced)
- French: A1 (Beginner)

PERSONAL INFORMATION

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