

Mahmoud Abdelaziz

Mechatronics Engineer

✉ mahmoudelkeshlan14@gmail.com ☎ +201062968976 📄 Mahmoud Abdelaziz 🌐 github.com/Mahmoud_Abdelaziz

Profile

Mechatronics Engineering graduate specializing in control systems and industrial automation, with experience in PID control, system modeling, and MATLAB/Simulink. Skilled in TIA Portal, Factory I/O, embedded systems, and PCB design for integrated control solutions.

Education

Egyptian Academy for Engineering and Advanced Technology (EAE&AT) Oct 2021 – 2026
Bachelor of Mechatronics Engineering cairo, Egypt

Professional Experience

Stuttgart Mercedes-Benz Center (Eng/Ahmed Othman) ☞ Feb 2026 – Mar 2026
Automotive Engineering Obour/ Cairo

During this intensive training, I gained practical experience across mechanical, electrical, and electronic systems

Huawei Artificial Intelligence Certification (AIC) Jul 2023 – Aug 2023
Huawei AIC program is designed to validate and enhance skills in AI technologies and applications. It covers a comprehensive range of topics, including machine learning, deep learning, and AI development frameworks. cairo, Egypt

Arab American Vehicles Company_AAV Jan 2023 – Feb 2023
Applying Toyota production system (TPS), known as "Toyota House" Applying the total quality system management on production lines cairo, Egypt

99 Military Factory Aug 2022 – Sep 2022
Prominent Egyptian defense manufacturer. It operates under the umbrella of the Arab Organization for Industrialization (AOI) cairo, Egypt

Skills

Programming Languages: Python, C++, MATLAB, Assembly

Embedded Systems: AVR Architecture, Microcontrollers, Serial Communication, RTOS

Control Systems: PID Control, Sensors & Actuators Integration, MATLAB/Simulink

PCB Design: Schematic Design, PCB Layout using Altium

MATLAB Simulink: modeling, Control system simulation, Signal processing

TIA_PORTAL: Siemens' integrated engineering software for programming PLCs

Courses

- HCIA-AI Huawei_ 50 Hours ☞
- ARTIFICIAL INTELEGANCE IN ZEWAIL UNIVERSITY ☞
- AI Application In the British University in Egypt ☞
- HA-Counsulting_Group ☞
- HCIP_AI Huawei_80 Hours ☞
- ITI X NVIDIA Generative AI Training Program ☞

Projects

PCB DESIGN ☞ Jul 2025 – Aug 2025
Make Complete Electronics Chips

A clean and tidy board instead of a breadboard Integration of sensors and motor control

DC AC INVERTER (FROM 12 V TO 220V) ☞ May 2025 – Jun 2025
Designed and simulated a 12V-220V DC-AC inverter using MOSFET-based H-bridge with PWM switching. Implemented control using MATLAB/Simulink and evaluated output stability.

Speed and Position Control May 2024 – Jun 2024
Passed on digital control

Languages

Arabic, English