

ABDULRAHMAN MOMTAZ

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Professional Summary

Versatile and detail-oriented Automation Engineer, Frontend Developer, and Digital Marketer, currently pursuing a B.Sc. in Electrical Power and Machines. Specialized in classic control circuits, user-centric interface development, and digital growth strategies. Experienced in building automation panels, designing smart systems, and creating responsive web applications. Eager to contribute to dynamic, tech-driven teams through hands-on innovation, technical precision, and creative problem-solving.

Education

Bachelor of Engineering – Electrical Power and Machines

Menoufia University, Egypt
2028

Expected Graduation: August

Focus: Automation • Classic Control • Renewable Energy • Embedded Systems

Core Courses: Classic Control • Electrical Machines • PLC Programming • Microcontrollers • Power Systems • Control Theory

Experience

Solar Energy Internship – MEL (August 2025)

- Completed a 24-hour intensive internship covering photovoltaic (PV) systems, off-grid and hybrid designs, and solar energy economics.
- Trained on system sizing, component selection, and software simulation tools for PV systems.
- Gained practical insights into real-world solar projects through technical sessions and a field site visit.

Technical Skills

Programming & Web Development:

- Languages: JavaScript (ES6+), C++, C#, Python, Node.js
- Web Tools: HTML5, CSS3, UI/UX Design, Responsive Design, Git, GitHub
- Frameworks: React.js (Basic)

Engineering & Control Systems:

- Systems: Relays, Contactors, Overloads, Motors, Timers, Limit Switches and pv design
- Tools: AutoCAD, SolidWorks, Revit, Proteus, Circuit Soldering, Panel Wiring, pvsyst , sketch up

Marketing & Analytics:

- Social Media Strategy, SEO, Content Creation, Email Marketing
- HubSpot CRM, Google Tools, Campaign Analytics Soft Skills
- Teamwork • Critical Thinking • Technical Communication
- Time Management • Leadership • Creativity

Projects

Designed and built multiple industrial automation projects using classic control methods:

- Motor Control Systems: Star-delta, DOL, forward/reverse starters with safety interlocks and overload protection.
- Automation Circuits: Traffic lights, conveyor with delay logic, and sequential multi-motor startup using relays and timers.

- Training Simulators: Emergency stop systems, packing machine logic, and smart mini-panels for hands-on learning.
 - Smart Safety Systems: Automatic door control and shutdown mechanisms using limit switches and fault indicators.
- Microcontroller & Smart Tech Projects:
- Bluetooth-Controlled Smart Car: Arduino-based vehicle with obstacle avoidance and remote navigation.
 - Smart Solar Tracker: Dual-axis tracking system using LDR sensors and servo motors, improving solar efficiency by ~40%.

Volunteer

AI Internship – Marketing Team Member

Menoufia University | Jan 2025 – Present

- Build With AI @ Google Developer Group Campaign
- Nasa space apps campaign

Certifications

Electrical & Control Engineering:

- Classic Control Circuit Design – Udemy
- PLC Level 1 - Siemens S7-1200 – Udemy
- SCADA & DCS Systems
- PV System Design – YouTube
- Solar Energy Basics

Digital & Marketing:

- Microsoft x Sprints Summer Camp (Digital Marketing, UI/UX, Web Dev, Python)
- Start Your Career in Digital Marketing – Mahara Tech
- AI for Digital Marketing – Mahara Tech
- Digital Marketing Strategy & Basics – Udemy
- Sprints x Microsoft summer camp-digital marketing
- digital marketing and social media strategy free course 2025
- marketing for entrepreneurs in 2022:learn digital marketing
- free digital marketing basics course

Programming

- Sprints x Microsoft summer camp-web development
- Sprints x Microsoft summer camp-programming using python
- Sprints x Microsoft summer camp-Ui/Ux design

Languages

- Arabic: Native
- English: Fluent
- German