





AHMED DARWISH

ELECTRICAL ENGINEER | EDUCATOR | EMBEDDED SYSTEMS SPECIALIST
Farwaniya, Kuwait

 +965 51105252

 +965 41005052

 e_ahmeddarwish@hotmail.com

 engahmeddarwish @ LinkedIn



PROFESSIONAL SUMMARY

Results-driven Electrical Engineer and Educator with 20+ years of combined experience in embedded systems engineering and technical education. Specialist in Arduino, Raspberry Pi, and microcontroller-based design, with strong programming skills in Python and C++ for IoT and automation. Proven track record of 100+ delivered freelance projects and 16+ years of curriculum design and student mentoring at middle and undergraduate levels. Bridging the gap between academic theory and practical, real-world engineering.



WORK EXPERIENCE

Electrical Technology Educator | MoE, Kuwait

September 2009 - Present

- Design and deliver structured Electrical Engineering & Electronics curricula for middle-level students, increasing engagement and understanding by ~30%.
- Lead hands-on labs and practical workshops integrating circuit design and embedded systems, improving practical exam scores by ~25%.
- Introduce digital tools and modern teaching methods across 15+ classrooms to accommodate diverse learning styles.
- Mentor students on practical projects using Arduino, Raspberry Pi, and sensor-based automation systems, contributing to a 20% rise in enrollment in advanced technical courses
- Recognized by faculty and administration for excellence in curriculum design aligned with Ministry standards.

Embedded Systems Engineer & Circuit Designer | Self-Employed (Freelance)


January 2010 - Present


- Conducted Arduino & Raspberry Pi training workshops for 100+ professionals and students
- Designed and delivered 100+ custom Arduino and Raspberry Pi projects for clients across Kuwait and the region, driving a 40% increase in repeat business.
- Programmed automation, IoT, and smart-system solutions in Python and C++, cutting manual intervention by ~35%.
- Delivered end-to-end engineering services – requirements analysis, circuit/PCB design, prototyping, testing, and client handover – across 100+ completed projects spanning industrial automation, smart-home systems, and educational kits
- Achieved a 95% client satisfaction rate through responsive technical support and troubleshooting
- Used Proteus, PSpice, Multisim, MATLAB, and AutoCAD Electrical to optimize circuit designs, reducing design errors by ~20%.


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WORK EXPERIENCE

Lecturer, Electrical Engineering | PAAET, Kuwait

September 2025 - Present

- Deliver hands-on practical workshop courses at the Industrial Institute: bench fitting and electrical control & contactors workshops.
- Train students on hand tools, precision measurement, marking-out, filing techniques, and wire soldering, with strict workshop safety protocols.
- Deliver practical training on contactors, motor-control circuits, wire preparation and termination, protective devices (overload & earth-leakage breakers), and electrical fault troubleshooting.
- Assess students through practical exercises and workshop projects, ensuring compliance with PAAET academic and safety standards.

Lecturer, Electrical Engineering | PAAET, Kuwait

September 2015 - June 2018

- Taught undergraduate courses including advanced computer applications, PC Networking, and MS office applications.
- Developed lesson plans and practical lab experiments aligned with PAAET academic standards.
- Guided student graduation projects and provided ongoing academic mentoring throughout the academic year.

Executive Sales Engineer | Arab Engineers for Trading Co., Saudi Arabia

2005 - 2008

- Managed technical sales, bids, quotations, technical training, and after sales technical services for educational engineering equipment across Khobar, Dhahran, and Jubail to educational institutions (KFUPM, JIC, and JTI).
- Delivered pre-sales technical consultation and tailored engineering proposals for institutional clients.
- Coordinated with engineering and procurement teams to ensure on-time, on-spec proposal delivery.



CORE COMPETENCIES

- **Embedded Systems:** Arduino, Raspberry Pi, microcontrollers, sensor-based automation.
- **Programming:** Python, C++ – IoT, automation, and smart systems.
- **Circuit Design:** Digital circuits, PCB layout, electrical schematics.
- **Engineering Tools:** MATLAB, AutoCAD Electrical, simulation & CAD with PSpice and Multisim.
- **Education & Training:** Curriculum development, lab instruction, workshops, student mentoring.
- **Professional:** Public speaking, leadership, problem solving, cross-functional collaboration.




WORKSHOPS & PRESENTATIONS


- MS PowerPoint (2022–2026), trained 150+ participants on impactful presentations.
- MS Word (2023 - 2025), documentation techniques; +25% participant efficiency.
- AI and Advanced Programming Languages (2023), seminar on AI and modern programming.


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EDUCATION

B.Sc. Electronics and Electrical Communication Engineering | Cairo University, Egypt **May, 2004**

GSM Fundamentals & Survey | HTC, Cairo University, Egypt **January, 2005**

Sales of Specialized Educational Equipment | PHYWE SYSTEME GmbH & Co., Germany **March, 2006**



LANGUAGES

Arabic | Native

English | Very good (strong written and verbal communication)