

MAHMOUD KORANY ABDELFAHATTAH

Senior STEM & Robotics Specialist

Kuwait | +965 6991 1190 | m.qurani89@gmail.com | linkedin.com/in/koranitronics

PROFESSIONAL SUMMARY

Senior STEM & Robotics Specialist with nearly 9 years of experience in STEM education, robotics program delivery, curriculum and instructor development, and competition management at a national talent-development center in Kuwait. **Delivered 200+ training programs and workshops with 2,000+ participant reach, and developed 200+ educators, trainers, and aspiring instructors.** Proven track record coaching award-winning teams to repeated national podium sweeps and Top-10 world rankings. Leads the full lifecycle of robotics competitions, from concept and challenge design through judging systems, arena development, technical validation, and event-day execution. Engineering foundation in Mechatronics, Robotics and Automation, complemented by professional development in educational technology, AI in education, and project management.

CAREER IMPACT

200+	2,000+	200+	11+
Training Programs & Workshops	Participant Reach	Educators & Trainers Developed	Robotics Competitions Delivered

CORE COMPETENCIES

STEM Education	Robotics Program Delivery	Competition Management	STEM Curriculum Design	Training of Trainers (ToT)
Instructor Development	Stakeholder Coordination	Educational Technology	Project Coordination	Technical Operations

PROFESSIONAL EXPERIENCE

Robotics Instructor & Competition Coordinator

Nov 2017 - Present

Sabah Al-Ahmad Center for Giftedness and Creativity (SACGC) | Kuwait

- Designed and delivered 200+ STEM, robotics, and programming training programs and workshops, generating 2,000+ participant reach across student, educator, and trainer-development initiatives.
- Trained and developed 200+ educators, trainers, and aspiring instructors through Training of Trainers (ToT), instructor-development programs, and hands-on robotics education initiatives, including programs for Kuwait Ministry of Education educators and newly graduated trainer candidates.
- Delivered external STEM and robotics learning initiatives through institutional collaborations, including Arduino training at Kuwait University, robotics training activities with KISR, and workshops for teachers from different schools.
- Develop robotics curricula, technical content, learning activities, and competition-oriented programs across LEGO Education / SPIKE, fischertechnik, Arduino, VEX, and other robotics platforms, adapting content to age, skill level, and learning objectives.
- Lead the end-to-end technical and operational delivery of 11+ robotics competitions (approximately 9 on-site and 2 online), covering concept and challenge design, difficulty calibration, rules, scoring and judging methodologies, arena development, technical validation, trainer/judge coordination, and event-day technical operations.
- Coach and mentor competitive robotics teams for national and international events, strengthening robot design, programming, engineering problem-solving, teamwork, and competition strategy.

SELECTED COMPETITION & COACHING ACHIEVEMENTS

- Robotex International: Coached and prepared SACGC teams across three consecutive years, achieving Top-10 world rankings including 5th place worldwide in Drone and 7th place worldwide in LEGO Sumo.
- World Robot Olympiad (WRO) Kuwait 2026: Led and coached SACGC teams to 1st, 2nd, and 3rd places in RoboMission Senior, qualifying for the WRO international competition in Puerto Rico.
- Robotex Kuwait 2025: Led and coached SACGC teams to all Top 3 positions (1st-3rd) in LEGO Sumo and the Top 2 positions (1st-2nd) in LEGO Line Following.
- Robotex Kuwait 2024: Led and coached SACGC teams to all Top 5 positions (1st-5th) in LEGO Line Following, plus 1st and 3rd places in LEGO Sumo.
- WRO Kuwait 2025: Coached a RoboMission Junior team to 2nd place nationwide, qualifying for the regional competition in Saudi Arabia.

EARLIER ENGINEERING EXPERIENCE

Maintenance Engineer

Nov 2016 - Oct 2017

HEISCO Oil & Gas | Kuwait

- Planned preventive and corrective maintenance for industrial equipment, diagnosed faults, and coordinated repairs with technical personnel.

Field Service Engineer

Jul 2015 - Nov 2016

Xerox | Egypt

- Provided field service, troubleshooting, maintenance, and technical support for Xerox equipment, coordinating timely problem resolution and service quality.

Service Engineer

Apr 2014 - Mar 2015

SISCO KSA | Saudi Arabia

- Installed, commissioned, maintained, and troubleshoot industrial machinery from Gravotech, Attexor, COUTH, and PEDDINGHAUS, and delivered client technical training.

Maintenance Engineer - Generators

Mar 2013 - Mar 2014

Egyptian Army | Egypt

- Performed mechanical and electrical maintenance and supported generator operations during military service.

EDUCATION

Bachelor's Degree - Mechatronics, Robotics & Automation Engineering

2007 - 2012

Ain Shams University | Cairo, Egypt

Focus: Robotics, automation, control systems, embedded systems, electronics, microcontrollers, PLC, CNC, and computer-aided manufacturing.

CERTIFICATIONS

Google Certified Educator Level 2 | Google | 2026 - 2029

Gemini Certified Educator | Google | 2025 - 2028

Google Certified Educator Level 1 | Google | 2025 - 2028

Certified International Professional Trainer | International Cultural Office - ICO LTD | 2019

Certified Trainer | American University of Professional Studies | 2019

fischertechnik Education - Level 1 | fischertechnik Education / SACGC | 2018

PROFESSIONAL DEVELOPMENT

Project Management Training (PMP® exam-preparation course) | Gravity - Business Advisory | 2025

Data Science & Machine Learning (AI) | CLS Learning Solutions | 2025

TECHNICAL & PROFESSIONAL SKILLS

Robotics & Platforms: LEGO Education / SPIKE, Arduino, VEX Robotics, fischertechnik, robotics programming and competition systems

Programming & Engineering: Python, C/C++, Embedded Systems, Electronics, Mechatronics, Automation

Program & Learning: STEM Curriculum Design, Program Development, Instructional Design, Training of Trainers, Instructor Development, Stakeholder Coordination, Project Coordination, Technical Operations, Event Operations, Mentoring, Team Leadership, AI in Education

LANGUAGES

Arabic: Native / Bilingual | **English:** CEFR B2 (Upper-Intermediate)