

MAHMOUD KORANY ABDELFATTAH

Senior STEM & Robotics Education Specialist

Robotics Trainer | Competition Coach | STEM Curriculum & Workshop Development
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PROFESSIONAL PROFILE

Senior STEM & Robotics Education Specialist with nearly 9 years of experience designing and delivering hands-on robotics, programming, and STEM learning experiences for students, educators, and trainers in Kuwait. Delivered 200+ training programs and workshops with 2,000+ participant reach and developed 200+ educators, trainers, and aspiring instructors. Experienced in age-appropriate curriculum design, Training of Trainers (ToT), classroom and workshop facilitation, and coaching award-winning teams for national and international robotics competitions. Strong engineering foundation in Mechatronics, Robotics and Automation, with practical expertise across LEGO Education / SPIKE, Arduino, VEX, fischertechnik, Python, and C/C++.

TRAINING & EDUCATION IMPACT

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

TRAINING SPECIALIZATIONS

Robotics & STEM Workshops	Student Coaching & Mentoring	STEM Curriculum Design	Training of Trainers (ToT)
LEGO Education / SPIKE	Arduino & VEX Robotics	Competition Preparation	AI & Educational Technology

RELEVANT 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 for students, educators, trainers, and aspiring instructors, generating 2,000+ participant reach.
- Trained and developed 200+ educators and trainers through Training of Trainers (ToT), instructor-development programs, and hands-on robotics education initiatives, including programs for Kuwait Ministry of Education educators.
- 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, lesson activities, and competition-oriented programs across LEGO Education / SPIKE, fischertechnik, Arduino, VEX, and other robotics platforms, adapting delivery to age, skill level, and learning objectives.
- Coach and mentor student teams for national and international robotics competitions, strengthening robot design, programming, engineering problem-solving, teamwork, and competition strategy.
- Lead the technical and operational delivery of 11+ robotics competitions, covering challenge design, rules, scoring and judging methodologies, arena development, technical validation, trainer/judge coordination, and event-day operations.

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 in LEGO Sumo and the Top 2 positions in LEGO Line Following.
- Robotex Kuwait 2024: Led and coached SACGC teams to all Top 5 positions 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.

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.

EDUCATION & TRAINING 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

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

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

TECHNICAL & TEACHING 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

Education & Training: STEM Curriculum Design, Workshop Development, Instructional Design, Training of Trainers, Instructor Development, Student Mentoring, Team Coaching, AI in Education

Competition Delivery: Challenge Design, Rules & Scoring, Judging Methodologies, Arena Development, Technical Validation, Event Operations

EARLIER ENGINEERING EXPERIENCE

Maintenance Engineer

Nov 2016 - Oct 2017

HEISCO Oil & Gas | Kuwait - Preventive/corrective maintenance, fault diagnosis, and technical repair coordination.

Field Service Engineer

Jul 2015 - Nov 2016

Xerox | Egypt - Field service, troubleshooting, maintenance, technical support, and customer coordination.

Service Engineer

Apr 2014 - Mar 2015

SISCO KSA | Saudi Arabia - Installation, commissioning, maintenance, troubleshooting, and client technical training for industrial machinery.

Maintenance Engineer - Generators

Mar 2013 - Mar 2014

Egyptian Army | Egypt - Mechanical/electrical maintenance and generator operations support during military service.

LANGUAGES

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