

MAHMOUD KORANY ABDELFAHATTAH

STEM & Robotics Program Specialist

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PROFESSIONAL SUMMARY

STEM & Robotics Program Specialist with nearly 9 years of experience developing and delivering STEM education and robotics initiatives at a national talent-development center in Kuwait. Delivered 200+ training programs and workshops with 2,000+ participant reach, while developing 200+ educators, trainers, and aspiring instructors through Training of Trainers and instructor-development initiatives. Experienced in curriculum and technical-content development, institutional STEM collaborations, stakeholder coordination, and end-to-end robotics competition delivery. Leads competition lifecycles from concept, challenge and scoring design through technical validation, trainer/judge coordination, and event-day operations. Engineering foundation in Mechatronics, Robotics and Automation, complemented by educational technology, AI in education, and project-management training.

CAREER IMPACT

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

CORE COMPETENCIES

STEM Program Delivery	Program Development	STEM Curriculum Design	Training of Trainers (ToT)	Instructor Development
Competition Management	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.
- World Robot Olympiad (WRO) Kuwait 2025: Coached teams achieving national podium results and regional qualification to Saudi Arabia.

EARLIER ENGINEERING EXPERIENCE

Maintenance Engineer

Nov 2016 – Oct 2017

HEISCO Oil & Gas | Kuwait

- Performed scheduled and corrective maintenance, diagnostics, breakdown response, technical coordination, and equipment support in an industrial environment.

Field Service Engineer

Jul 2015 – Nov 2016

Xerox | Egypt

- Delivered field-service troubleshooting, coordinated technical problem resolution, supported customer accounts, and maintained service quality and productivity.

Service Engineer

Apr 2014 – Mar 2015

SISCO KSA | Saudi Arabia

- Installed, commissioned, maintained, and supported industrial machinery and trained clients on operation and technical use.

Generator Maintenance Engineer

Mar 2013 – Mar 2014

Military Service | Egypt

- Supported generator maintenance and technical operations during military service.

EDUCATION

Bachelor of Mechanical Engineering – Mechatronics, Robotics & Automation

Ain Shams University | 2006 – 2012

SELECTED CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- Google Certified Educator Level 2 — Google (2026–2029)
- Google Certified Educator Level 1 — Google (2025–2028)
- Gemini Certified Educator — Google (2025–2028)
- Heartsaver® First Aid CPR AED — American Heart Association International (2025–2027)
- PMP® Certification Training Course — Gravity Business Advisory (2025)
- Data Science & Machine Learning (AI) — CLS Learning Solutions (2025)
- CAM Manufacturing Fundamentals — Siemens (2021)
- Certified International Professional Trainer — ICO Ltd (2019)
- Certified Trainer — American University of Professional Studies (2019)
- fischertechnik Education Certified Trainer (2018)

TECHNICAL & PROFESSIONAL SKILLS

Robotics & Platforms: LEGO Education / SPIKE, VEX, Arduino, fischertechnik, Raspberry Pi.

Programming & Engineering: Python, C/C++, PLC Siemens, embedded systems, electronics, CAD/CAM.

Education & Delivery: STEM curriculum design, Training of Trainers, instructor development, educational technology, competition management, mentoring and coaching.

Program Focus: STEM program delivery, program development, stakeholder coordination, project coordination, technical operations, and AI in Education.

LANGUAGES

Arabic: Native | **English:** B2 / Professional working proficiency