

MAHMOUD KORANY ABDELFAATTAH

Robotics Competition & STEM Program Specialist

Competition Design | Technical Operations | Team Coaching | Robotics Education

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PROFESSIONAL SUMMARY

Robotics Competition & STEM Program Specialist with nearly 9 years of experience in robotics education, competition design and delivery, team coaching, curriculum development, and technical operations at a national talent-development center in Kuwait. Led the end-to-end technical and operational delivery of 11+ robotics competitions, covering challenge design, rules, scoring and judging methodologies, arena development, technical validation, judge/trainer coordination, and event-day operations. Coached award-winning teams to repeated national podium sweeps and Top-10 world rankings, while delivering 200+ STEM, robotics, and programming programs and workshops with 2,000+ participant reach.

COMPETITION & PROGRAM IMPACT

11+	Top-10	200+	2,000+
Robotics Competitions Delivered	World Rankings Achieved	Training Programs & Workshops	Participant Reach

CORE COMPETENCIES

Robotics Competition Design	Rules & Challenge Development	Scoring & Judging Systems	Arena Development	Technical Validation
Event-Day Technical Operations	Judge & Trainer Coordination	Competitive Team Coaching	Robotics Program Delivery	STEM Curriculum Development

PROFESSIONAL EXPERIENCE

Robotics Instructor & Competition Coordinator

Nov 2017 – Present

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

- Lead the end-to-end technical and operational delivery of 11+ robotics competitions (approximately 9 on-site and 2 online), from concept and challenge design through rules, scoring and judging methodologies, arena development, technical validation, trainer/judge coordination, and event-day technical operations.
- Design and calibrate robotics competition challenges to appropriate difficulty levels, translating technical objectives into competition rules, scoring logic, judging workflows, arena requirements, and operational procedures.
- Coach and mentor competitive robotics teams for national and international events, developing robot design, programming, engineering problem-solving, teamwork, and competition strategy.
- Develop competition-oriented robotics curricula, technical content, and learning activities across LEGO Education / SPIKE, fischertechnik, Arduino, VEX, and other robotics platforms.
- 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) and instructor-development initiatives, including programs for Kuwait Ministry of Education educators.
- Delivered external robotics and STEM initiatives through institutional collaborations, including Arduino training at Kuwait University, robotics training activities with KISR, and workshops for teachers from different schools.

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.

COMPETITION DELIVERY CAPABILITIES

Competition Design & Planning: Concept development, challenge structure, difficulty calibration, rules, competition flow, and technical requirements.

Scoring & Judging: Scoring methodologies, judging workflows, technical validation, and coordination with judges and trainers.

Arena & Technical Operations: Arena development, equipment readiness, testing, troubleshooting, and event-day technical operations.

Team Development: Competition preparation, robot design, programming, engineering problem-solving, teamwork, and strategy.

Robotics Platforms: LEGO Education / SPIKE, VEX, Arduino, fischertechnik, and other educational robotics platforms.

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)
- 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.

Competition Operations: Challenge design, rules, scoring, judging systems, arena development, technical validation, event operations.

Education & Leadership: STEM curriculum design, Training of Trainers, instructor development, competitive team coaching, stakeholder coordination.

LANGUAGES

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