MAGDY ABDELWAHAB ELKHERBAWY



Industrial Control Manager | PLC · SCADA · DCS | Refrigeration & Energy Optimization

Designing control systems that turn data into real energy savings.

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Jeddah, Saudi Arabia (open to relocation) | Egyptian, in KSA since 2012
Valid Iqama | Saudi driving licence | Notice period: 2 months

PROFILE

Industrial Control Manager with **17+ years** in industrial refrigeration, food, FMCG and paper plants in Saudi Arabia and Egypt. At Johnson Controls Arabia I built the controls team from zero to **12 engineers and technicians** and led the electrical and controls scope of **120+ projects and offers since 2019**, including **50+ projects in 2024–2025 alone, with SAR 220M+ in awarded contract value**, for clients such as SADAFCO, Farm Frites, Al Watania Poultry and Golden Chicken. In 2025 I launched the Industrial Controls division for data centres, government and utilities. Seven years running maintenance and DCS projects in a 24/7 paper mill keep my focus on uptime.

KEY ACHIEVEMENTS

- **Built a business from zero:** grew the controls team to 10 engineers and 2 technicians in two years, then launched the Industrial Controls division (2025), which has opened 60+ opportunities across seven sectors since then.
- **Large-scale delivery:** electrical and controls lead on a SAR 220M+ portfolio of refrigeration plants, with five projects of SAR 18M or more each, including a central refrigeration plant for a major food producer, both phases of the Farm Frites potato plant in Sudair, and dairy and ice cream plants.
- **Controls scope managed:** SAR 13M of MCC, PLC and SCADA budgets on 2025 projects alone, including medium-voltage VFD and soft-starter packages.
- **Supply chain:** moved panel building to a KSA panel builder and reached 100% direct Siemens purchasing in 2026, shortening lead times.
- **Standards & tools:** one TIA Portal standard with reusable PLC/SCADA libraries; in-house digital tools that generate offers, drawings and PLC projects.

EXPERIENCE

Industrial Control Manager

Jul 2019 – Present

Johnson Controls Arabia (Al Salem Johnson Controls)

Jeddah, Saudi Arabia

Industrial Controls division (2025 – present)

- Launched and lead the division serving district cooling, water and utilities, roads and tunnels, giga-projects, industry and data centres: 60+ opportunities since 2025, on a Siemens S7-1500 / ET200SP / WinCC / Scalance architecture.
- Lead pre-sales engineering: system architectures, network topologies, technical and commercial offers, BOQs and costing.

Industrial Refrigeration controls (2019 – 2025)

- Built and managed the controls team covering design, PLC/SCADA programming, panel engineering, site commissioning and handover; recruited, trained and mentored engineers, and organised certified EPLAN Electric P8 training for the team (2026).
- Led electrical and controls scope for ammonia, CO_2 and Freon plants: power tables, SLDs, MCCs with MV/LV VFDs and soft starters, cable engineering, PLC/SCADA, FAT, SAT and commissioning.
- Commissioned PLC/SCADA for food, dairy, poultry and cold-chain plants including SADAFCO, Arla, Al Watania Poultry, Golden Chicken, Al Amal, ARASCO, Al Shaheni, Leha, Red Sea, Maersk and Naqel.
- Created the team's PLC and SCADA library (compressors, ammonia pumps, condensers, valves) and an internal PLC / HMI / SCADA / instrumentation training programme.

Senior Automation Engineer

Jun 2012 – Jun 2019

Middle East Paper Company (MEPCO)

Jeddah, Saudi Arabia

- Planned and ran Annual Maintenance Plans (daily, monthly and shutdown work) for a 24/7 continuous-process paper mill.
- Led root cause analysis on critical DCS/QCS failures; developed Honeywell C300 & PMD logic and resolved Experion PKS network issues.
- Engineering and commissioning for five capital projects: PM3 Rebuild, PM1 DCS Upgrade, PM2 Rebuild, PM2 Rewinder Upgrade and PM1 QCS Upgrade.

Seasonal Project Manager (Hajj season)

2014 – 2018, Hajj seasons

Advanced Tools Est. (Adatak) *Saudi Arabia*

- Each Hajj season, ran a seasonal project with a temporary team of up to 50 engineers and technicians brought in from Egypt and partner companies.
- Designed and commissioned automatic weighing control for 48 weigh stations, with PLC/SCADA reports per station and CCTV with live online reporting.

Early career

2007 – Jun 2012

Teaching, military service and first engineering roles *Menoufia & 10th of Ramadan, Egypt*

- 2007–2008: lab instructor, Faculty of Electronic Engineering, Menoufia University (3rd-year Industrial Electronics & Control lab, 15 hours a week); pre-master's studies.
- 2008–2009: military service, Egyptian Armed Forces; 3-month training grant at the Ministry of Military Production; 3 months at Al Amal Plastics, 10th of Ramadan.
- Project Engineer, Industrial Systems Company (ISGEG), Jul 2009 – Jan 2012: automated filling lines for Cadbury, Egypt Foods and Ocean Foods, a refrigeration tunnel for Montana and refrigeration SCADA for KOKI; PLC, HMI, servo and stepper drives.
- Instruments Engineer, ARMA Soap and Detergents, 2012: led five instrument technicians; calibration of transmitters, control valves and flowmeters; Allen-Bradley PLCs.

SKILLS

PLC & control: Siemens S7-1500/1200/300/400, TIA Portal, ET200SP; Rockwell Allen-Bradley; IEC 61131-3, object-oriented PLC libraries

SCADA & HMI: Siemens WinCC Professional, FactoryTalk View SE/ME, DAQFactory; alarm management, trends, reports, energy dashboards

DCS & process: Honeywell C300 & PMD, Experion PKS, QCS; loop tuning, root cause analysis, network troubleshooting

Refrigeration: NH_3 / CO_2 / glycol plants, screw compressors, MV/LV VFDs and soft starters, blast freezers, cold stores, Carel controllers

Electrical: MCC & control panels, SLDs, power tables, cable sizing & trays, termination lists, Profinet / Scalance networks

Management: Team building, budgeting & costing, pre-sales / technical offers, supplier management, FAT / SAT, commissioning, handover

EDUCATION & CERTIFICATIONS

B.Sc. Industrial Electronics & Control Engineering — Menoufia University, Egypt, 2007 (Very Good; graduation project: Excellent)

Uptime Institute Accredited Tier Specialist (ATS) — passed, August 2026

EPLAN Electric P8 2026, Professional Update Training — EPLAN, August 2026

EcoStruxure Automation Expert (EAE) Partner Accelerator Bootcamp — Schneider Electric, Riyadh, August 2026

Project Management Professional (PMP) Workshop, 40 hours — NaviGrowth, October 2023

Radiation Protection Officer, nuclear gauges — qualified by KACST National Center for Radiation Protection, 2012; RSO training (SPSS, 2012) and 32-hour refresher (2018)

LANGUAGES

Arabic: native | English: professional working proficiency