



WALEED ELHADI

Electrical & Control Engineer

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SUMMARY

I have been working in electrical and control engineering for 10 years, most of that at Khafji Joint Operations in Saudi Arabia — a joint venture between Aramco and Kuwait Oil Company. I started as a control engineer but ended up taking on the full electrical engineering scope plus materials management for electrical components as well. My day-to-day involves supervising 5 to 6 concurrent projects, handling faults across electrical systems, and making sure equipment and materials are in place when needed.

I hold a Master's in Engineering and Management (IoT) from the Polytechnic University of Turin, Italy on a scholarship, and a Bachelor's in Electrical Engineering. I tend to be pulled into things beyond my original role —, which I do not mind.

WORK EXPERIENCE

Electrical, Control & Materials Engineer

Jan 2022 – Present

Al Jalhami Contracting & Trading Co. · KJO – Khafji, Saudi Arabia

Contract HT673CB20 · Community & Business Department · Khafji Joint Operations

- Hired as a control engineer but progressively took over the electrical engineering scope on site, plus materials engineering for electrical components — three roles running in parallel
- Supervising 5 to 6 active projects per day: progress tracking, site inspections, fault resolution, and contractor coordination across a 40+ person team
- Led a full audit and overhaul of all outdated electrical components and spare parts across the company — catalogued and loaded 500+ line items into SAP for procurement
- Design and troubleshoot electrical panels, control circuits, and LV power distribution systems
- Responsible for load calculations and load balancing across the community facilities
- Manage UTP and fiber optic network cabling: installation, termination, testing, and commissioning
- Supervise corrective maintenance on automatic, sliding, and rotating door control systems

Lead Planning & Design Engineer

May 2021 – Dec 2021

LAMDA Sudan Electrical Entity · Sudan

- Designed and installed solar power systems with battery storage for off-grid and backup use
- Planned and executed medium and high voltage overhead line projects — cost estimation, transformer and switchgear installation, and commissioning
- Also handled agricultural irrigation power systems and energy backup designs
- Covered both the technical and project management side of each job from planning through to delivery

Maintenance Electrical Engineer

Sep 2016 – Sep 2018

SMS – Saad Al-Din Mursi and Sons Co. · KJO – Khafji, Saudi Arabia

Contract HT323CB14 · Community & Business Department · Khafji Joint Operations

- Maintained main and sub-power stations, RMU distribution, and electrical systems across all community facilities — villas, hospital, stadium, swimming pool, offices, auditorium, and street lighting
 - Maintained fiber optic and structured network cabling across the community
 - Supervised technicians and tradespeople on maintenance and repair jobs
 - Handled SAP-based material creation and purchasing for all maintenance items
 - Designed and ran preventive maintenance schedules for all electrical equipment categories
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EDUCATION

MSc – Engineering & Management (IoT)

Oct 2018 – Apr 2021

Polytechnic University of Turin · Turin, Italy

- Awarded EDISU scholarship
- Thesis: built an open-source IoT monitoring system for building facilities — connected FCU sensors to track vibration and room lighting levels, transmitted readings to a central database, and integrated the data into a BIM model for live maintenance monitoring. Deployed and tested in the main Polito campus building

BSc – Electrical Engineering (Honors)

Sep 2009 – Jan 2014

Academy of Engineering Science · Khartoum, Sudan

- Thesis: Optimal Transmission Line Design

CERTIFICATIONS & TRAINING

Safety	BOSIT · OSHA 30hr · Hazard Recognition · Safety Management System · JSA/JHA · Permit to Work · Authorized Gas Tester (AGT)
Management	Project Initiation (Google) · Project Management · Work Preparation
Electrical	Electrical Installation Design for Buildings · Solar Panel Design & Installation · Low Voltage Switchgear
Industrial	4-month full-time training at Sudanese Thermal Power Generation Co. — from generation through to distribution

SKILLS & TOOLS

Engineering	Electrical systems design · Control circuits · LV/MV systems · Load calculations · Building automation · Power distribution
Networking	UTP & fiber optic cabling · Installation · Termination · Testing · Commissioning
Software	AutoCAD · SAP · Node-RED · Arduino · HTML · Python · SQL · MS Office · Photoshop
Languages	Arabic (native) · English (advanced) · Italian (beginner)