

Mohamed Wegdan Hassan

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Riyadh, KSA.

- Nationality: **Egyptian**
- Driving License: **Valid**
- Saudi Engineer Council ID: **Valid**
- IQAMA: **Transferable**
- DOB: 05-05-1981

Electrical Project Engineer

Electrical Engineer with over 16 years of expertise in project execution, supervision and management of diverse projects including hospitals, hotels, factories (pharmaceutical, cement, hygienic), residential and commercial buildings, malls, and electrical outdoor networks.

Scope of work:

Electrical Systems: Lighting, power, cable trays, panel boards, transformers, generators, MCC, RMU, MVSG, ATS, UPS, BMS, CCTV, access control systems, public address, MATV, data & Telephone, master clock, nurse call, fire alarm, grounding, and lightning protection.

Mechanical Systems: HVAC, plumbing, elevators, medical gas, and BMS.

Work Experience

❖ **MEP Project manager | Fixer 45 Company - Riyadh - KSA | Oct. 2024 – Present**

Projects:

1- Residential | Jazil Compound 92-villa | Owner: Al-Omran- MUDCO Company

Manage the MEP project team, including engineer, technical teams +150 people for execution of the project of 92-villa, Gym, cafeteria and landscape.

2- Residential | Qirawan Compound 45-villa | Owner: Al- Habib Company

MEP project: Ditto as above project with 45-villas, GYM, Cafeteria and landscape.

3- Residential | Al-Shifaa | Owner: Al-Omran- MUDCO Company

Manage Plumbing work for one building

4- Residential | Al-Narges | Owner: Al-Omran- MUDCO Company

Manage Plumbing work for 2- building

Responsibility:

- Manage project schedules, resources, and manpower allocation to meet deadlines and milestones.
- Review and validate design drawings, shop drawings, and technical submittals to ensure compliance with project specifications and standards.
- Coordinate with consultants, clients, and subcontractors to resolve technical and construction issues, schedule, specification.
- Support in budgeting, cost control, and procurement of materials, equipment, and subcontractor services.
- Oversee installation, testing, and commissioning of MEP systems (HVAC, electrical, plumbing, fire protection, ELV).
- Coordinate between civil, architectural, and MEP teams, ensuring smooth integration of services within the project.
- Review method statements, risk assessments, and work permits for MEP activities.
- Monitor progress, quality, and safety compliance on-site, reporting variances and recommending corrective actions.
- Ensure adherence to local authority regulations, international codes, and project specifications.
- preparing progress reports, documentation, and project handover packages.

Projects:

- 1- Hospital | National Hematology and Tropical | Owner: Ministry of Health**
 - Manage Hospital project (Electrical) contains 120 patient rooms, isolation rooms, 15 ICU, 3 Operation rooms, medical clinics, clinical labs, CDC lab, Central lab, Sterilization department, kitchen, laundry, X-ray, C.T scan, power station.
 - Electrical work includes Outlets, receptacles/ fixtures for Light, power, F.C.U, E.W.H, Data, TEL., PABX, TV, Nurse call , Access Door, public address, CCTV, Fire alarm, Raceways, Cable Tray, Wires, Cables, Boxes, (Sub/ Main) Distribution Panel, RMU, MVSG, Power transformers, Generator sets, ATS , UPS, Isolation panel ,Low current panel / Frame, Data switch and Earthing sys, Lightning protection , BMS Which includes MCC's, Elevator , AHU's, Fan section's , Pressurized Fan's, Chiller's.
- 2- Residential |R3 - New Administrative Capital | Owner: A.S.G.C**

Manage Electrical work for 2 buildings (residential 11 floors +administrative 2 floors.
- 3- Commercial |MEGA Store Mall - Consultant: Kem | Owner: Ministry of Defense**

Manage Electrical work for commercial malls (area 1500 m2 divided to 100 stores.
- 4- Industrial |JEDCO pharmaceutical - Consultant: Kem | Owner: Free zone**
 - Manage Factory project with approx. area 20,000 m2 is divided into 4 floors for raw, preparation, finish store, production lines area, power station.
 - Electrical work contains Outlets, receptacles / fixtures for Light, power, E.W.H, Data , TEL., PABX, TV , public address, CCTV, Fire alarm , Raceways, Cable Tray, Wires, Cables, Boxes, (Sub/ Main) Distribution Panel, MVSG, Power transformers , Generator sets, ATS , UPS, Low current panel / Frame, Data switch , Earthing sys and Lightning protection .
- 5- Hospital |EL-NAS - Consultant: Allied & Nile | Owner: Crystal ASFOUR**
 - Manage Hospital project (Electrical) contains 160 patient rooms, 8 isolation room, 36 ICU, 6 Operation rooms, 28 medical clinics, 7 clinical labs, Sterilization department, kitchen, laundry, X-ray, C.T scan.
 - Electrical work contains Outlets, receptacles/ fixtures for Light, power, F.C.U, E.W.H, Data ,TEL., PABX, TV , Nurse call , Access Door, CCTV, Fire alarm, Raceways, Cable Tray, Wires, Cables, Boxes, (Sub/ Main) Distribution Panel, RMU, MVSG, Power transformers, Generator sets, ATS , UPS, 50-Isolation panel Low current panel / Frame, Data switch and Earthing sys, Lightning protection , BMS Which includes MCC's , Elevator , AHU's, Fan section's , Pressurized Fan's, Chiller's, Cooling Towers.
- 6- Hotel |Cosmopolitan // Consultant: Allied | Owner: Cosmopolitan**

Develop 120-Guest rooms and lobby with modern interior design including all embedded MEP utility
- 7- Outdoor networks |Hatshepsut, King & Queen Valley | Owner: Ministry of Antiquities**

Manage Project contain 10 power transformers, connect to DBs , billers and 48-light stages total 650 high power light fixers (narrow/ wide beams, mercury/ sodium types) included routs excavation and cables pulling and back-filling, earthing system.

Responsibility:

- Manage the project team, including engineer's supervisors, and technicians.
- Review all project documents, prepare execution plan, including time schedule, cash flow and procurement plan.
- Define the scope of all works, coordinate all activities with each other's and arch/civil teams to avoid conflicts.
- Follow up on progress against the master schedule and ensure timely completion.
- Prepare regular reports for higher management.
- Solve technical and site issues during execution.
- Ensure that all work complies with approved specifications
- Review and approve purchase orders and invoices.
- Coordinate with the procurement department to ensure timely material delivery.
- Verify quantities and certify payment applications to consultants / clients.
- Attend regular meetings with consultants and clients.
- Prepare and submit submittals (materials, shop drawings, method statements).
- Oversee testing and commission (as-built drawing, O&M manuals, warranty certificates).
- Supervise startup and trial operations of systems.

❖ **Seinour Electrical Engineer| TMC CON Company. - EGYPT | Nov. 2009– Aug. 2010**

Project: Hospital | Mansoura urology | Owner: Ministry of Health

- Hospital buildings contain 30 patient rooms, 3 isolation rooms, 6 ICU, 2 Operation rooms, 14-medical clinics, 6 clinical labs, Sterilization room, kitchen, laundry, X-ray.
- Electrical work contains Outlets, receptacles/ fixtures for Light, power, F.C.U, E.W.H, Data, TEL., PABX, TV , Nurse call , CCTV, Fire alarm , Raceways, Cable Tray, Wires, Cables, (Sub/ Main) Distribution Panel, Power transformers, Generator sets, ATS , UPS, isolation panel Low current panel / Frame, Data switch and Earthing sys, Lightning protection , BMS Which includes MCC's , Elevator , AHU's,

Responsibility:

- Review, and approve electrical design drawings, single line diagrams, load schedules, schematics, and BOQs.
- Ensure compliance with international standards and project specifications.
- Provide technical solutions for power distribution, lighting, grounding, and special systems.
- Plan, monitor, and control electrical project activities from initiation to commissioning.
- Coordinate with civil, mechanical, and architectural teams for proper MEP integration.
- Manage project schedules, resources, and budgets to meet deadlines.
- Oversee installation of electrical works (MV/LV systems, panels, cabling, transformers, generators, UPS, etc.).
- Conduct site inspections, testing & commissioning of electrical systems.
- Ensure quality assurance and adherence to safety standards.
- Mentor junior engineers, draftsmen, and technicians.
- Communicate with consultants, contractors, and clients for technical approvals and issue resolution.
- Attend progress and coordination meetings, presenting technical reports.
- Prepare material submittals and for consultant approval.
- Review vendor offers, conduct technical evaluations, and recommend best solutions.
- Monitor delivery schedules to avoid project delays.
- Perform FAT, SAT, and final commissioning of electrical systems.
- Prepare O&M manuals, as-built drawings, and final documentation.
- Ensure smooth handover of projects to client/facility management.
- Enforce compliance with electrical safety codes, and local regulations.
- Conduct risk assessments and implement corrective actions.
- chiller's ,Fan section's , Pressurized Fan's.

❖ **Electrical site Engineer| TMC CON Company - EGYPT | Aug. 2007– Dec. 2008**

Projects:

1- Industrial | Blue circle | Owner: Lafarge cement company

Project case: find overheat problem solution for transformers room and machine area, prepare engineering study, design and execute suitable solution.

1- Industrial | Iveco Oil | Owner: Iveco Egypt company

Project case: find ventilation solutions for storage area, prepare engineering study, design and execute suitable ventilation equipment.

2- Industrial | hygienic foods | Owner: Al-Salhiya company

Project case: find a vapor withdrawal solution in foods production area, prepare engineering study, design and execute suitable equipment to solve client problems.

Responsibility:

- Supervise installation of electrical systems (lighting, power, earthing, low current, MV/LV equipment).
- Ensure work is executed as per drawings, specifications, and safety standards.
- Monitor subcontractors, technicians, and labor productivity on site.
- Coordinate with civil, mechanical, and other disciplines for proper MEP integration.
- Attend daily/weekly site meetings with consultants, contractors, and clients.
- Resolve technical/site issues in coordination with senior engineers or project managers.

- Carry out inspections to ensure quality of workmanship.
- Submit inspection requests (IRs) and get approvals from consultants.
- Ensure compliance with international standards and local codes.
- Conduct pre-commissioning checks (continuity, insulation resistance, polarity tests).
- Enforce electrical safety procedures and permit-to-work systems.
Ensure safe work practices

Education & Certificates:

- Demand Side Management and energy efficiency | SCE | Educ. Seminar 2025
- KNX | Building automation system | Schneider Electric certificate | Course 2023
- PMP | PMP & Exam preparation course | Expert | Course 2015
- Revit | Autodesk Revit MEP certificate | Course 2013
- Ideal engineer certificate | TM-con | 2008
- Electrical safety in medical locations according to IEC | BENDER | 2007
- Bachelors of Electrical power & machine engineering – Al-Azhar University – Egypt, 2007

Skills

- **Software tools:** AutoCAD, Revit, Dialux Evo, MS Excel, MS-project
- **Soft skills:** Leadership, Communication, Teamwork, Adaptability

Languages

- Arabic : Native
- English: Upper intermediate (B2)