

Mahmoud Mohsen Mohamed
Site Mechanical Engineer
Transferable Iqama
Certified by the Saudi Council of Engineers

PROFESSION SUMMARY

Site Mechanical Engineer with +7 Years of Experience in the implementation of MEP mechanical trades (HVAC, Firefighting and Plumbing) in mega projects(ALMASA HOTEL, NEW MINISTRY OF DEFENSE, MARRIOTT MENA HOUSE HOTEL and ABO QURQAS CENTRAL HOSBITAL projects) in the largest Egyptian contracting companies like ORASCOM, LANDMARK SABBOUR and SIAC companies and seeking a challenging opportunity in a reputable company where my skills, experience and academic background can be implemented, utilized and professionally developed and talk that establishment to advanced level during my position.

EDUCATION

- ❖ BSc of Mechanical Power Engineering. (2013 – 2018)
- ❖ University: Elminya University.
- ❖ Graduation year: 2018. (+7 years of experience). {Grade: Good 70 %}.
- ❖ Graduation Project: Design of cooling and air conditioning network for Cold Storage. {Grade: Excellent}.

PERSONAL & CONTACT INFORMATION

- ❖ Full name: Mahmoud Mohsen Mohamed Hassan Abouzeid.
- ❖ Date of birth: 1/11/1994. * Marital status: Single.
- ❖ Military service: Completed. * Nationality: Egyptian.
- ❖ Address: Riyadh. * Phone number: 0590005245.
- ❖ E-mail: mhmod.mohsen98@gmail.com * LinkedIn: <https://www.linkedin.com/in/mahmoud-abo-zaid-2140a51a4>

EXPERIENCE

- ❖ Working as a **Senior Site Engineer** at **SIAC Construction CO** in **Abo Qurqas Central Hospital** project from Jan 2024 until now.

Hospital capacity: 250 medical bed

- Consistently implement and follow up project execution to ensure standards, specification, codes and approvals.
- Maintain the quality standards of all mechanical activities as per project quality plan.
- Review design drawings and prepares submittals.
- Supervising the implementation of mechanical works (HVAC, Firefighting and Plumbing).
- Follow up on daily work with subcontractors.
- Implementation of the HVAC network (chilled water system) with all its components from chillers to diffusers according to the design and codes.
- Installation of about 400 FCU, about 72 AHU, 3 chillers (each one is 835 TR) water cooling type and 3 cooling towers.
- Installation of 4 pumps for chillers with a flow rate of 2004 GPM and 4 condensate pumps with a flow rate of 2505 GPM with its hookup valves at suction and discharge.
- Installation of all air ducts with its accessories from fresh, feed, return and exhaust.
- Implementation of the chilled water network with all its components according to the design and codes.
- Installation of chilled water control valves on the supply and return lines(hookup) for FCUs, AHUs, chillers and pumps.
- Implementation of the firefighting network wet sprinkler system with all its components from the tank and pump room to sprinklers and fire hose cabinets according to the design and codes.
- Installation of the pump room with all its components according to the design and codes.
- Installation of FHC with its types Class 1 & 3.
- Installation of water zone control valves with all its components according to the design details and codes.
- Installation of all types of sprinklers Pendent, Upright and Side wall



- Implementation of plumbing networks (water supply and drainage) with all its components between the public water and drainage networks, bathrooms, kitchens, kidney dialysis rooms, morgue and intensive care rooms.
- Installation of all flow control valves on the water supply network.
- Implementation of all thermal insulation works for air duct lines and chilled water pipes inside and outside the building according to the codes.
- Submits site daily reports inspection requests IR, MS and RFI.
- Prepare BOQ of installation materials, purchase requests, and follow up delivery.
- Receiving works from subcontractors according to the design and codes.
- Making quantity survey for all works and duct weight.
- Follow up on daily work and solve daily problems.
- Coordination with the other departments civil and electrical.
- Initiate testing and commissioning and follow up consultant for final hand-over.
- Deliver all works to the consultant.

❖ I worked as a Site Engineer at **Landmark Sabbour Construction CO.** from Oct 2021 to Dec 2023 in **Marriott Mena House Hotel Project.**



- Observing the installation of all mechanical works HVAC, Firefighting, Plumbing, Swimming pool and infrastructure.
- Revising the design drawing before starting the implementation and compare it with the real site conditions.
- Installation of HVAC system duct network with its accessories.
- Installation of chilled water pipes with its fittings and valves.
- Implementation of firefighting network Wet sprinkler and Gases (CO2+ FM200) systems.
- Installation of drainage network (welding) under tile, under slap and underground with its stacks.
- Installation of water supply networks cold and hot pipes.
- Installation of bathrooms fixtures with their water supply and drainage.
- Manages directly and provide engineering and technical support to all the mechanical work groups at the site.
- Coordinate between the mechanical drawings and other drawings like elec & arch drawings.
- Revising the BOQ for project to order the material quantities and follow till it deliver to the site.
- Making quantity survey for all works and duct weight.
- Submits site daily reports inspection requests IR, CIR, BO, BR, and RFI.
- Continually find solutions to conflicts in mechanical drawings.
- Make as built drawings.
- Supervising field employees assigned to a particular construction discipline work.
- Making a plan for mechanical subcontractors according to the time schedule for the project.
- Deal with the consultant about the approval for submitted material samples.
- Provide technical information and interpretation of plans, detail sheets and specifications for Subcontractors.
- Make a test for every item after the installation process like leakage test for duct works and pressure test for firefighting, chilled water, water supply and drainage networks according to operation conditions and codes.
- Deliver all works to QC.
- Deliver all works to consultant (**Hill International office**).

❖ I worked as a Site Engineer (Reserve Officer) at **Egyptian Armed Forces Engineering Authority** in **ORCHID RESORT** project in Command of the 3rd Army, from Oct 2019 to Oct 2021.



- Follow up daily MEP (HVAC, FF, PL) works in the site.
- Supervision to the implement of HVAC system {VRV system}.
- Supervision to the implement of firefighting system {Fire Extinguisher, FHC, FH and Siamese Connection}.
- Supervision to the implement of Plumbing system {Drain lines and Feed Water Lines}.
- Review for design drawings with consultant and BOQ, PR and all quantities survey before implement.
- Receive MEP works from consultant according to design and codes.

❖ I worked as a Site Engineer at **ORASCOM** Construction Co in **Al-Masa Hotel Project (Regal Heights now)** in the City of New El Alamein from Jul 2018 to Apr 2019.



Activities:-

- Implement of HVAC system (Ducts, Chilled Water Pipes, FCUs, AHUs, HOOK-UPS) with its accessories.
- Implement of Firefighting Wet sprinkler system.
- Site inspection for mechanical works according to design and codes.
- Solve daily problems in the site.
- Making coordination with another sectors Civil and Electrical.
- Making as built drawings.
- Quantity survey and duct weight.
- Shop drawings.
- Prepare documents such: IWIR, EWIR and MIR.
- Deliver works to QC.
- Deliver works to Consultant (ECG office).
- Follow up daily works and tasks.
- Supervision on subcontractor such Elhoda for duct works.



TRAINING & COURSES

❖ Training at the **ORASCOM Construction** Company in the new administrative capital, in the new **Ministry of Defense Project**.

I trained about the works of:-

- The works of implementation of HVAC and Firefighting systems, Shop drawings for HVAC and Firefighting systems, The quantity surveying for HVAC and Firefighting systems, Preparing WIR, MIR and RFI and how to deliver QC and Consultant (Sabbour office).



❖ Training at the **ARAB Contractors** Company, in the **New Liver Hospital, Minya University**.

I trained about the works of:-

- How to install the HVAC system and all of its network components such as(Chillers, AHU, FCU, Volume Dampers, Diffusers, Fresh, Exhaust, Supply and Return Ducts, Supply and Return Chilled Water Pipes and Hock up).



❖ Basics of Fire Protection and HVAC Systems Course.

❖ MEP diploma (HVAC, Firefighting and Plumbing) and Certified Quality Engineer diploma.

COMPUTER SKILLS & LANGUAGES

- ❖ AutoCAD.
- ❖ Microsoft Office (Word, Excel and Powerpoint).
- ❖ Arabic (Mother tongue).
- ❖ English (V.Good).

FUNCTIONAL SKILLS

- ❖ Risk Assessment.
- ❖ Troubleshooting.
- ❖ Communication.
- ❖ Team Work.
- ❖ Report Writing.
- ❖ Problem Solving.