


# AHMED KHAMIS SOBHY


Mechanical Engineer (HVAC, Fire Fighting, Plumbing)

Construction Engineering

## PERSONAL DATA

---

 +966/ 545754163

 Riyadh, Saudi Arabia

 engahmedkhamis9@gmail.com

 [www.linkedin.com/in/ahmed-khamis](http://www.linkedin.com/in/ahmed-khamis)

## OBJECTIVE

---

A dedicated and results-driven Mechanical Engineer with 10 years of experience, specializing in HVAC, Fire Fighting, and Plumbing systems. Seeking a challenging role in Construction Engineering to leverage my expertise in system design, installation, project management, and adherence to international standards.

Proven ability to collaborate effectively with contractors, consultants, and cross-disciplinary teams to deliver efficient and innovative mechanical systems. Committed to optimizing performance, ensuring quality, and driving efficiency across all project phases.

## Educational

---

**Sept 2009 - July 2014** Bachelor Degree in Mechanical Engineering.

- Faculty of engineering, Alexandria University.
- Grade: Good

## Skills

---

- |  |  |
|--|--|
| • HVAC System Installation (Ducting, Air Handling Units, Chillers) | • Carrier HAP                                |
| • Fire Fighting Systems (Sprinklers, Standpipes, Fire Pumps)       | • Ductsizer                                  |
| • Plumbing Systems (Water Supply, Drainage, Sanitary Systems)      | • Elite Fire                                 |
| • Site Supervision & Project Execution                             | • WaterCAD                                   |
| • Project Management & Team Coordination                           | • AutoCAD                                    |
| • Testing, Commissioning, and Troubleshooting                      | • Revit                                      |
| • Load Calculations & Pressure Drop Calculations                   | • Primavera P6                               |
| • Knowledge of Local and International Codes (ASHRAE, NFPA, IPC)   | • MS Office Programs                         |
|  | • MS Project                                 |
|  | • Office Timeline – Microsoft Visio Drawings |

## Summary of Skills

---

### Technical Expertise

- **HVAC System Installation:** Proficient in installing and overseeing **ducting, air handling units, and chillers** using industry tools like **Carrier HAP** and **Ductsizer**.
- **Fire Fighting Systems:** Skilled in the implementation of **sprinklers, standpipes, and fire pumps**, with experience using software like **Elite Fire**.
- **Plumbing Systems:** Expertise in the design and installation of **water supply, drainage, and sanitary systems**, leveraging tools like **WaterCAD**.

# AHMED KHAMIS SOBHY

Mechanical Engineer (HVAC, Fire Fighting, Plumbing)

Construction Engineering

- **Engineering Calculations:** Advanced proficiency in **load calculations**, **pressure drop calculations**, and system optimization.
- **Testing, Commissioning, and Troubleshooting:** Hands-on experience in evaluating and resolving performance issues across mechanical systems.

## Software Proficiency

- Drafting and modeling with **AutoCAD** and **Revit**.
- Engineering analysis tools: **Carrier HAP**, **Ductsizer**, **Elite Fire**, and **WaterCAD**.
- Project management tools: **Primavera P6**, **MS Project**, **MS Office Programs**, **Office Timeline**, and **Microsoft Visio**.
- Enterprise systems: Familiarity with **Oracle** and **SAP** for resource and project management.

## Project Management & Execution

- Proven expertise in **site supervision**, **project execution**, and coordinating multi-disciplinary teams.
- Strong project scheduling and resource allocation skills, ensuring on-time and within-budget delivery.

## Standards and Codes

- In-depth knowledge of **local and international codes**, including **ASHRAE**, **NFPA**, and **IPC**.

## Professional Experience

### Mechanical Engineer – Construction– (HVAC, Fire Fighting, Plumbing),

#### EL-Mashreq Development.



Feb-21 to Present

- Supervised the installation of HVAC, Fire Fighting, and Plumbing systems on-site, ensuring compliance with design specifications, safety regulations (ASHRAE, NFPA, IPC), and project timelines.
- Conducted on-site inspections to ensure proper installation of mechanical systems, including ductwork, piping, and fire protection equipment.
- Coordinated with project managers, architects, and subcontractors to resolve technical issues and optimize system performance.
- Prepared and reviewed shop drawings, technical submittals, and material approvals, ensuring alignment with the project's scope.
- Managed testing and commissioning of HVAC, Fire Fighting, and plumbing systems, troubleshooting issues and ensuring functionality before handover.
- Monitored the installation and construction of infrastructure networks, including water supply, drainage, fire-fighting systems, and electrical distribution.
- Ensured on-site activities adhered to design specifications, project plans, and quality standards.
- Coordinated with contractors, subcontractors, and suppliers to ensure the smooth execution of infrastructure works.
- Managed material procurement and inventory to ensure project progress.
- Reviewed engineering drawings, blueprints, and specifications to identify discrepancies and solutions.
- Supervised hydraulic and pressure testing for water and drainage systems to ensure operational integrity.

# AHMED KHAMIS SOBHY

Mechanical Engineer (HVAC, Fire Fighting, Plumbing)

Construction Engineering

Mechanical Site Engineer, MEGA for Construction & Industries



Oct-18 to Jan-21

- Oversaw mechanical construction activities for HVAC, plumbing, and Fire Fighting systems, ensuring compliance with design, safety, and quality standards.
- Liaised with procurement teams to ensure timely delivery of materials and equipment for the project.
- Led daily site coordination meetings, reporting progress to senior management and addressing any construction challenges.
- Ensured all mechanical installations met local codes and regulations and handled any necessary on-site modifications.
- Managed contractor teams for mechanical installations, conducting regular safety audits and inspections.
- Revise piping drawing (isometric and P&ID) to check compliance with client specifications and codes.
- Piping and its supports material take-off, inspection, quantity surveying and requesting.
- Shortage material status with main contractor and suppliers.
- Making AS-BUILT drawing according to site mandatory conditions.
- Preparing pressure test packages documentations.
- Supervise the construction and erection of piping works.
- Piping insulation material surveying, requesting and installation.
- Inspection and witnessing piping installations to verify completion to piping isometric drawings and P&IDs.
- Supervise hydro test and chemical cleaning activities.
- Supervising post hydro-testing activities and reinstatement works.
- Performs a walkthrough on the different systems through P&IDs then clearing the system punch items.
- Supervise the piping alignment on pumps.
- Supervise the construction and erection of temporary piping, valves and supports required for hydro test and steam blow works.

Commissioning Engineer, SAPESCO - Sahara Petroleum Services



Aug-2017 to Sept-18

- Check piping drawing (isometric and P&ID) revision to check compliance with client specifications and codes to the constructed piping.
- Preparing pressure test packages documentations.
- Piping insulation material surveying, requesting and installation.
- Supervise the construction and erection of temporary piping, valves and supports required for hydro test and steam blow works.
- Making AS-BUILT drawing according to site mandatory conditions.
- Supervise hydro test and steam blow activities till successful completion.
- Supervising post hydro-testing and steam blow activities and reinstatement works.
- Perform a walkthrough on the different systems through P&IDs then clearing the system punch items.

# AHMED KHAMIS SOBHY

Mechanical Engineer (HVAC, Fire Fighting, Plumbing)

Construction Engineering

Mechanical Engineer, Dar For Engineering Company (DFE)

Feb -2016 to Jul-17

- Supervision and responsibility of MEP construction works.
- Review and Prepare Shop drawings, Technical Submittals, Material Q.S and purchasing orders.
- Monitor and control project resources and progress of works.
- Follow up with supplier for materials delivery based on projects time schedules.
- Prepare Invoices and review subcontractor invoices.
- Prepare and update time schedule and resources plan for execution of works.

Construction Engineer, SPIG S.P.A.



Sept -2014 to Jan -16

- Revise received drawing and prepare material requests.
- Inspection of material received quantities and qualities.
- Supervision of ACC steel structure assembly and erection works.
- Supervision duct construction and erection activities.
- Control received material in material yard.
- General Control of Construction activities (Mechanical).
- Prepare Lifting plans for the parts with heavy weights and critical Positions.
- Performing Visual Inspection for the erected parts to check compliance with valid drawing.

## Projects

---

- |   |  |
|---|--|
| • Aswan Dialysis Center   | • South Valley National University.  |
| • Laparoscopic surgery building at Ain Shams University Hospitals | • Faculty of Pharmacy and Science, New Mansoura University                 |
| • Al Galaa Military Medical Complex                               | • Faculty of Engineering AL- Ahram Canadian University, 6th October City). |
| • Military Hospital In Aswan.                                     | • Banque Misr The Main branch.   |
| • Port Said Eye Hospital, Port Said.                              | • Capital Business Park 6th October City.                                  |
| • Elburullus Combined Cycle Power Plant 4800MW                    | • New Capital Project.   |
| • 6th October Power Plant   | • Industrial Zone In Luxor   |
| • ASSIUT SUPERCRITICAL POWER PLANT 1×650 MW                       | • Aswan waste water Lifting plants.  |
| • Beni Suef combined cycle power plant 4800 M                     | • Assuit waste water treatment Plant 125,000 m3/day.                       |

## Languages

---

- Arabic: Native
- English: Fluent