

# Haytham Mohamed Zidan

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## PROFESSIONAL SUMMARY

Accomplished Senior Commissioning and Site Engineer with over 16 years of hands-on experience in the execution and management of mechanical systems, including HVAC, fire protection, plumbing, and MEP coordination, across large-scale projects. Proven track record in leading site operations, overseeing the seamless integration of complex systems, and ensuring all installations comply with technical specifications, safety standards, and timelines. Skilled in pre-commissioning, commissioning, and quality assurance, with extensive expertise in managing cross-functional teams, resolving on-site conflicts, and optimizing system performance. Adept at preparing technical documentation, conducting site inspections, and driving projects to successful completion within budget and schedule. Known for delivering high-quality results in demanding environments such as hospitals, military installations, and educational facilities, with a focus on operational efficiency and client satisfaction.

## CORE SKILLS

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|---------------------------------------|-------------------------------------|----------------------------|
| • Mechanical Systems Installation     | • Building Management Systems (BMS) | • MEP Coordination         |
| • HVAC Systems                        | • Fire Protection Systems           | • Mechanical Design Review |
| • Testing and Commissioning           | • Chilled Water Systems             | • Regulatory Compliance    |
| • Site Supervision                    | • Pre-commissioning & Commissioning | • Quality Assurance        |
| • Project Coordination                | • Site Conflict Resolution          | • System Integration       |
| • Technical Specifications Compliance | • Material Submittals               | • Mechanical Shop Drawings |

## PROFESSIONAL EXPERIENCE

### Senior Site Mechanical Engineer & Lead Commissioning

- Oversee the mechanical testing and commissioning of ceiling closures, ensuring precise installation and alignment of HVAC systems, ductwork, piping, and fire protection systems before ceiling sealing.
- Coordinate mechanical system inspections, ensuring all components within ceiling voids meet operational readiness standards ASHRAE, NFBA, SMACNA, IPC & Saudi Standard Local Codes, and collaborate with multidisciplinary teams to integrate systems and meet project timelines.
- Lead the installation and commissioning of Air Handling Units (AHUs), Fan Coil Units (FCUs), and Computer Room Air Conditioning (CRAC) units, managing chilled water pipe connections, valve installations, bypass lines, and system integration to ensure optimal performance and efficiency.
- Manage the engineering and commissioning of the chilled water (CHW) system, performing system checks, ensuring accurate sizing and installation of components, and optimizing system efficiency for reliable long-term operation.
- Collaborate with the design team to identify and resolve design discrepancies, ensuring compliance with client specifications, site conditions, and regulatory standards.
- Conduct on-site assessments to review mechanical system design implementation, ensuring system layouts and operational conditions meet project requirements and client expectations.

#### Major Projects:

**Project:** KSP-MBL-RAC-CMT-STR-RFI | Oct 2024 - Present

**Role:** Site Mechanical Engineer & T&C Lead for Dome Plot A2.3 C2

- Lead the installation and commissioning of critical mechanical systems, including Variable Air Volume (VAV) and Constant Air Volume (CAV) HVAC systems, fire protection systems (pre-action and wet systems), Novec fire suppression systems, and the chilled water network for AHUs and FCUs integrated with underfloor cooling technology.
- Oversee the pre-commissioning and commissioning processes for HVAC and fire protection equipment, ensuring full operational readiness and compliance with industry standards through comprehensive testing procedures.
- Conduct detailed reviews of project documentation, authority approvals, and system specifications to verify that the design meets the client's requirements, sustainability objectives, and regulatory standards.

**Project:** KAFD Enhancement Project Phase 2 – Riyadh (Area 2 & 4) DCP Feeds Parcel | Feb 2023 - Oct 2024

**System:** PHEX with AHU & FCU Chilled Water-Cooled Type

- Led the mechanical testing and commissioning efforts, ensuring the verification and approval of test results and certificates, facilitating smooth project handover to local authorities such as Civil Defense, MOMRA, AMMANA, NWC, and the facility management team.
- Oversaw the validation of existing equipment and managed the pre-commissioning and commissioning processes for new systems, ensuring compliance with all technical specifications and operational requirements.

- Tracked and reported on the progress of testing and commissioning activities, maintaining accurate documentation through detailed cash sheets to monitor milestones and ensure timely completion.
- Coordinated the preparation and submission of the Turnover Certificate (TOC), managing approvals from PMCM and CDC, and ensuring the successful completion of inspections and final handover procedures.

## **Abdullatif Mohammed Al-Arfaj & Brothers Co., Jeddah, Saudi Arabia**

Site Mechanical Engineer | Nov 2022 - Jan 2023

### **Major Projects:**

**Project:** Dr. Suleiman Al Habib Hospital, Gharb Jeddah, KSA

**Project Scope:** 245 Beds, 288 Million SAR, Air-Cooled Chiller 3000 TON

- Led the execution of HVAC and plumbing systems, ensuring that all installations were aligned with project specifications, operational requirements, and quality standards to achieve optimal system performance.
- Supervised the installation of fire protection systems, including wet systems and water mist systems, ensuring full compliance with safety regulations and effective integration into the overall building systems.
- Directed mechanical activities on-site, ensuring that all work met technical specifications and industry standards, while actively managing processes to verify the systems' operational readiness and compliance with design criteria.
- Coordinated with multidisciplinary teams to monitor and control system installations, troubleshooting issues as they arose and ensuring that all mechanical systems were delivered on time and in full accordance with the project's quality and safety requirements.

**Project:** Naval Air Base Project MH-60 R - Jubail | Apr 2019 - Oct 2022

**Role:** Senior Mechanical Engineer - Testing & Commissioning (T&C)

**Project Value:** 120 Million SAR

**System:** Air-Cooled Chiller (1300 Ton Capacity)

- Led the on-site execution of HVAC systems and fighting protection systems (Wetsystem & Preaction for military facilities and foam system for MH60 maintenance hanger), overseeing mechanical work, material procurement, and system integration, ensuring full compliance with project specifications and safety standards.
- Managed the preparation and submission of material submittals, technical evaluations of supplier proposals, and coordination of shop and coordination drawings using Revit and Navisworks to ensure accurate system design implementation.
- Followed BMS field device execution and startup of equipment with suppliers. Supervised the testing and commissioning (T&C) processes, ensuring the seamless operation of HVAC and fire protection systems. Facilitated the submission of the Turnover Certificate (TOC) for project handover.

**Project:** Dr. Suleiman Al Habib Hospital, Al Khobar, Saudi Arabia | Jan 2018 - Apr 2019

**Role:** Site Mechanical Engineer & T&C Lead

**Project Scope:** 500 Beds, Water-Cooled Chillers (6500 Ton), 550 Million SAR MEP Cost

- Spearheaded the installation and commissioning of advanced HVAC ducting systems, ensuring high-efficiency VAV and CAV systems were seamlessly integrated into critical hospital environments, such as operating rooms and labs.
- Directed on-site mechanical operations, guaranteeing compliance with rigorous technical standards and safety regulations, while overseeing the successful testing and commissioning of systems to meet the hospital's precise operational needs.

## **NKY Architects & Engineering, Riyadh, Saudi Arabia**

Junior Mechanical Engineer | Aug 2014 - Jan 2018

### **Major Projects:**

**Project:** Security Headquarters Projects for the Saudi Ministry of Interior (Second Stage, KAP2 Phase "A")

**Project Scope:** 95 Million SAR, including Border Guard Institute and Housing (KAP-2A3 Sit-5), MOI Dormitories (KAP-2A3 Site-9), Package & DX Units

- Directed mechanical system installations and operations for various projects, including HVAC, fire protection, LPG, MEP coordination, infrastructure networks, and BMS, ensuring effective integration and adherence to project specifications.
- Spearheaded the application of technical standards and engineering codes, delivering solutions to ensure system compliance and operational efficiency across all mechanical aspects of the projects.

## MASCO Construction Contracting Co., Saudi Arabia

Mechanical Engineer (Technical Office & Site Engineer) | Jun 2012 - Jun 2014

### Major Project:

**Project:** Al-Dawdamy Housing Project (1236 Villas & Site), Saudi Arabia

**System:** HVAC DX System

- Designed and developed precise mechanical shop drawings, performing comprehensive calculations to ensure seamless integration of HVAC DX systems and full compliance with project requirements.
- Drove MEP coordination and conflict resolution on-site, effectively addressing project discrepancies and executing mechanical installations, while facilitating thorough inspections with consultants to ensure timely project delivery and adherence to quality standards.

## Al Sagheer for Trading and Contracting Co, Zulfi, Saudi Arabia

Mechanical Site Engineer | May 2008 - May 2012

### Major Projects:

Faculty of Science, Zulfi University, Saudi Arabia (133 Million SAR)

Housing for High Education Staff, Magma & Shaqra Universities, Saudi Arabia

King Fahd Military City Housing Projects for Air Defense, Dammam (El-Zahran), Sites Across Eastern Saudi Arabia

- Oversaw the seamless implementation of mechanical systems, including HVAC, fire safety, and plumbing, for large-scale academic and defense housing developments, ensuring adherence to project objectives and engineering standards.
- Directed and coordinated mechanical site operations, resolving technical challenges and ensuring efficient integration of systems, while maintaining rigorous compliance with regulatory standards, project deadlines, and quality benchmarks across diverse locations.

## AL Badr for Engineering & Trade, Cairo, Egypt

Site & Technical Office Mechanical Engineer | Jun 2006 - Apr 2008

### Major Projects:

Research Academy, Tanta University, Faculty of Engineering (HVAC System)

Happy Day Egypt Factory for Clothes (Ventilation System)

## CERTIFICATES & PROFESSIONAL DEVELOPMENT

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- **Navisworks - Bim Coordinator** | Autodesk ( Authorized Training Center | Jun 2019
- **REVIT - Electro-Mechanical Bim Engineer** | Autodesk ( Authorized Training Center | Jun 2019
- **Certificate of Experience ( General Mechanical Engineer)** | NKY Architects & Engineers | Jan 2018
- **Certificate of Experience ( Mechanical Engineer )** | Mohammed A. Al Swailem Company | May 2014
- **Certificate of Experience** | Al Saghyir for Trading - Contracting Company | May 2012
- **NAVISWORK (BIM360)**
- **HVAC & FIRE Systems Network**
- **AutoCAD 2D,3D**
- **BMS UDEMY**
- **(JAVA Language) | UDACITY**
- **Mobile Application Programming | Business Solution Est**
- **Android Apps Workshops (Certified from PMI )**

## EDUCATION

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- **Bachelor's Degree in Power Mechanical Engineering | Faculty of Engineering** | Banha University, Cairo | Grade: Good | 2006
- **Graduation Project:** A New Test Rig Construction and Enhancement of Gasoline & Diesel Engine Performance Using Computer Program Control | Grade: Excellent

## LANGUAGES

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- **Arabic:** Native
- **English:** Advanced