

Haitham Mohamed Adel Ibrahim

Nationality: Egyptian

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Personal statement

I hold a Bachelor's degree in Mechanical Engineering (2007) and have obtained the Fundamentals of Engineering (FE) certificate from the National Council of Examiners for Engineering and Surveying (NCEES). Since 2007, I have gained extensive practical experience as a Mechanical Design Engineer, Senior Mechanical Design Engineer, and Senior Mechanical Technical Office Engineer / LEED Coordinator across several leading engineering firms and consultancies. I have also earned multiple certifications and completed numerous specialized courses that enhanced my professional and technical skills. My goal is to obtain a position that matches my experience, allows me to work with a professional team, achieve the highest performance standards, and continue developing new skills.

Key Skills

Soft Skills:

- Communication and negotiation skills
- Responsibility and leadership skills
- Presentation skills
- Time management and Teamwork skills
- Ability to handle critical situations

Technical Skills:

- Proficient in designing HVAC, Firefighting, Plumbing, Drainage, Medical Gas, Fuel, and Steam systems.
- Skilled in preparing shop drawings and detailed designs using AutoCAD, Revit MEP, HAP, Duct Sizer, and Pipe Sizer, in compliance with ASHRAE, NFPA, and IPC standards.
- Capable of performing heat load calculations and designing air-conditioning systems to achieve energy efficiency and indoor air quality.
- Knowledgeable in applying sustainable building standards and designing projects in accordance with LEED AP BD+C requirements.
- Expertise in designing fire protection systems (water, gas, foam, sprinklers, and hose reels) following NFPA codes.
- Skilled in designing water supply, drainage, swimming pool, fountain, compressed air, laboratory gas, and fuel systems.
- Ability to coordinate mechanical, electrical, and architectural works to ensure clash-free designs.
- Familiar with project management principles (PMI) including scheduling, cost tracking, and risk analysis.
- Experienced in preparing technical specifications, BOQs, and cost estimates, and reviewing technical and financial proposals.
- Proficient in site supervision, ensuring compliance with drawings and specifications, and supporting testing and commissioning activities.
- Skilled in cost estimation, bid evaluation, procurement, and supplier coordination.
- Experienced in designing and implementing VRF systems for commercial, administrative, and hospitality projects.
- Proficient in utilizing modern mechanical design technologies to enhance operational efficiency and reduce energy consumption.
- Flexible and adaptive in working with various engineering and design software and quickly learning new tools as required.
- Good knowledge of Microsoft Office applications.

Language Skills:

- A2 in English

Education

Bachelor of Mechanical Engineering, Cairo University
(2007)

Employment History

Senior Mechanical Technical Office Engineer / LEED Coordinator at United Group for Electromechanical Works
(Sep 2023 - Present)

Achievements and responsibilities:

- Lead the mechanical technical office team and manage the preparation and review of shop drawings for HVAC, Firefighting, and Plumbing systems.
- Coordinate mechanical works with other disciplines (Electrical, Architectural, Structural) to ensure technical integration and clash-free designs using BIM tools such as Revit and Navisworks.
- Manage clash detection processes and follow up on resolving issues before execution.
- Prepare and update as-built drawings based on site modifications.
- Supervise project schedules and budgets, ensuring adherence to timelines.
- Monitor site progress and ensure works comply with approved designs and specifications.
- Review and prepare BOQs, monthly progress reports, and material submittals.
- Apply LEED sustainability standards and oversee documentation for LEED Certification in coordination with consultants and project teams.
- Provide technical support to the site team and resolve engineering challenges.
- Participate in coordination meetings and issue technical and administrative reports.
- Review and approve designs per international codes (ASHRAE, NFPA, IPC).
- Contribute to optimizing mechanical systems and proposing sustainable engineering solutions.

Senior Mechanical Design Engineer at AAW Consulting Engineers
(Sep 2021 - Sep 2023)

Achievements and responsibilities:

- Review and approve mechanical designs for HVAC, Plumbing, and Firefighting systems per ASHRAE, NFPA, IPC, and SBC standards.
- Ensure compliance of designs with client requirements, technical specifications, and quality standards.
- Perform detailed design calculations for thermal loads, air distribution, water networks, and drainage systems.
- Coordinate design activities with architectural, structural, and electrical teams to ensure integrated project solutions.
- Review and approve shop drawings submitted by contractors, ensuring compliance with approved designs.
- Supervise all design stages from concept to tender documentation.
- Review and approve material submittals and equipment selections.
- Attend meetings with clients and contractors to resolve technical and design conflicts.
- Ensure timely submission of deliverables and report progress to senior management.
- Contributed to major projects in the Gulf region, especially in Saudi Arabia, including: Multi-story car park in Jubail for the Royal Commission - Visitors Building at the Holy Qur'an Printing Complex, Madinah - KAP 5 Project

Freelance Mechanical Technical Office Engineer
(Jan 2020 - Sep 2021)

Senior Mechanical Technical Office Engineer at United Group for Electromechanical Works (Aug 2016 - Dec 2019)

Senior Mechanical Technical Office Engineer at EM Electromechanical Drawings Office
(Jul 2013 - Jul 2016)

Senior Mechanical Technical Office Engineer at Egypt Engineering Consultancy Office
(Feb 2009 - Jun 2013)

Mechanical Design Engineer at Saleh & Hegab Consulting Office (Banking Sector)
(Oct 2007 - Jan 2009)

Courses, Training and Certifications

Fundamentals of Engineering (FE) – NCEES

Certified HVAC Designer (CHD) – ASHRAE

Certified Water-Based Fire Protection System Professional (CWBSF) – NFPA

LEED Accredited Professional (LEED AP BD+C) – GBCI (U.S. Green Building Council)

Project Management Professional (PMP) – PMI

HVAC & Ventilation Courses:

- **Air Conditioning and Ventilation Control**
- **Air Conditioning Applications**
- **Fundamentals of HVAC Design in Healthcare Facilities**
- **Data Center Mechanical and Cooling Systems**
- **Principles of Air Conditioning Design**
- **VRF System Design**

Firefighting Courses:

- **Sprinkler, Hose Reel, Foam, Water Mist and Water Spray Systems**
- **Gas Suppression Systems**
- **Portable Fire Extinguishers**
- **CFPS Preparation Diploma.**

Plumbing & Sanitary Courses:

- **Water Supply and Drainage Systems**
- **Swimming Pool and Fountain Design**
- **Compressed Air Systems**
- **Medical and Laboratory Gas Systems**
- **Fuel and Steam Systems**

Other Courses:

- **Mechanical Works Cost Estimation**
- **Procurement and Purchasing Procedures**