

MOHAMED AHMED ABD EL-HAMID

FRESH GRADUATE MECHANICAL ENGINEER

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Personal Information

Full Name: Mohamed Ahmed Abd EL-Hamid Kandil

Date of Birth: May 1, 2002

Nationality: Egyptian

Military status: Exempted

Education

Bachelor of Mechanical Power Engineering

Oct 2020 - Sep 2025

Alexandria University

Faculty of Engineering, Mechanical Department - CGPA: 2.71 (Very Good)

Graduation Project: HVAC System Design for Food Production Factory

Developed an integrated HVAC system for a food manufacturing facility, emphasizing hygienic and controlled zones. Managed thermal comfort, humidity levels, and air quality in line with strict food safety standards and regulations. Carried out ductwork and piping design calculations, and specified major equipment such as Air Handling Units (AHUs), Fan Coil Units (FCUs), and chillers. Determined pump flow rates and head to support efficient operation. Built hands-on experience in system planning, equipment specification, and ensuring compliance with hygiene and regulatory requirements.

Experience

Mechanical Design Engineer

D2G Office

October 2025 – Present

Ghamim Restaurant, Jeddah ,Saudi Arabia

- Designed fire fighting system (sprinkler & hose reel) using AutoCAD based on hazard classification and NFPA requirements.
- Calculated system demand, pump capacity, and residual pressure using Elite Software.
- Executed quantity take-off (BOQ) for modeled elements to support cost estimation and planning.

Ali Salem Residential Building, Jeddah , Saudi Arabia

- Developed NFPA-compliant fire fighting design for *Ali Salem Residential Building*, incorporating sprinkler layout and standpipe system (landing valves) for buildings exceeding 9 m height.
- Calculated system demand, pump capacity, and residual pressure to meet design criteria.
- Designed smoke extraction system for basement, including airflow calculation, duct sizing, and load estimation.

Khamis Mushait School , Saudi Arabia

- Designed fire fighting system for Khamis Mushait School Project in accordance with NFPA standards, including sprinkler layout and system coordination.
- Performed hydraulic calculations to ensure required flow and pressure at design areas.
- Executed quantity take-off (BOQ) for modeled elements to support cost estimation and planning.

Sama Star Warehouse ,Riyadh , Saudi Arabia

- Designed fire fighting system for Sama Star Warehouse Project in accordance with NFPA standards, including sprinkler layout and system coordination.
- Performed hydraulic calculations to ensure required flow and pressure at design areas.
- Executed quantity take-off (BOQ) for modeled elements to support cost estimation and planning.

Arax Medicals Factory , Saudi Arabia

- Developed NFPA-compliant and Modon Authority fire fighting design for *Arax Factory*, including sprinkler

system and piping network for industrial application.

- Conducted hydraulic analysis and optimized pipe sizing to meet required design density and coverage.

AL-Tebr AL-Zahaby ,Saudi Arabia

- Developed NFPA-compliant and Modon Authority fire fighting design for Al Tebr Al Zahaby Factory Project, including sprinkler system and piping network for industrial application.
- Conducted hydraulic analysis and optimized pipe sizing to meet required design density and coverage.

Courses and Training

Trainee | BIM Diploma – NIQAT Training Center (2026)

Currently enrolled — Program duration: 9 months

Expected completion: [October , 2026]

Trainee | Engineers House (2024)

HVAC Systems Design Course.

1- Designed an office building using DX System (Celling Concealed Unit) by using AutoCAD.

2- Designed call center using DX System (package unit) by using AutoCAD in Kuwait.

3- Designed tower consisting of 23 floors using a chilled water system by using AutoCAD. - Calculated pump flow rate and head.

Trainee| Ezz Dekheila Steel

13/8/2023–24/8/2023

Trainee| West Delta for Electricity

9/2022–10/2022

Technical and Personal Skills

AutoCAD.

Revit.

HAP.

Duct Sizer.

Pipe Sizer.

Elite

ASHRAE Duct Fitting.

Microsoft Office.

Languages

- Arabic: Native proficiency
- English: Advanced (reading & writing), Upper-intermediate (listening & speaking)
- German: Basic proficiency

Personal Skills

- **Clear Expression** – Communicate ideas in a structured and understandable way while being attentive to others' input.
- **Cooperative Work Style** – Contribute effectively within team environments to accomplish shared objectives.
- **Flexibility** – Adjust quickly to new situations, technologies, and work demands.
- **Task Organization** – Manage responsibilities efficiently by setting priorities and meeting required timelines.
- **Analytical Thinking** – Tackle challenges using a structured, solution-oriented approach.
- **Continuous Development** – Show strong interest in gaining new knowledge and improving skills.
- **Professional Mindset** – Maintain a constructive and respectful approach in tasks and team interactions.