

# Mechanical Engineer

## Mahmoud Fathi Mahmoud Mohamed

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### PERSONAL INFORMATIONS:

Date of Birth : 1/6/1990  
Marital Status : Married  
Nationality : Egyptian

### EXPERIENCE:

- Company: General Directorate of Military Works at **Ministry of Defense - (GDMW)**.  
Position: **HVAC Design Engineer**.  
From: 18/01/2017 Present

#### Projects:

- 30 Beds Hospital, Taif.
- Minister Office, Riyadh.
- Armed Forces Hospital, Al Madina.
- War College Building, Riyadh.
- GDMW Office Building (High Rise Building), Riyadh.
- Gymnasium Building, Jeddah (Saudi Arabia).
- Communication and Computer Building, Riyadh.
- NCO Barracks, Riyadh.
- Office and Residence Buildings for Military Attaché, (Bangladesh).
- Housing Buildings of Officers and NCO, Taif.
- Computer Building, Tabuk.
- Maintenance Workshop, Riyadh.
- Operations Center of Ministry of Defense, Tabuk.
- Office and Residence Buildings for Military Attaché, (Algeria).
- Spare Parts Warehouses, Riyadh.

- Company: **Al Rajhi Engineering Consulting Office**.  
Position: **HVAC Design Engineer**.  
From: 01/01/2015 10/01/2017

#### Projects:

- Construction of Naval Base, Jizan.
- Laundry Building, Khamis Mushait.
- Military Office Station, Riyadh.
- Maintenance and Operation (M&O) Building, Jizan.
- Boys and Girls Elementary Schools, Riyadh.
- Military Command Building, Jeddah.

- Officers Club, Riyadh.
- Company: **Zuhair Fayez Partnership Consultants.**  
Position: **HVAC Design Engineer.**  
From: 01/01/2014 30/12/2014

Projects:

- 350 Beds Hospital (Ministry of Interior), Riyadh.
- King Faisal Housing Compound (High Rise Buildings), Jeddah.
- Taif Municipality Building (High Rise Buildings), Taif.
- Archive Building (Revit), Riyadh.
- Dining and Kitchen Building, Riyadh.
- Diabetes Clinics (Revit), Jeddah.

- Company: **EGEC (Engineering House of Expertise).**  
Position: **HVAC Design Engineer.**  
From: 01/01/2013 30/12/2013

Projects:

- Al Azhar Hospital, Cairo.
- IBIS and ADAGIO Hotel, Al Doha.
- Royal Commission Schools, Al Jubail.
- Mobily Company (Telecom and Data Center Building), Al Riyadh.
- Mobily Company, Al Taif.
- PHCC Headquarter, Al Doha.
- IDRAK (Masr El Khair ) Hospital, 6 October City.
- National Security Building, Cairo.

- Company: **New Speed Electro Mechanical Contracting Company.**  
Position: **Mechanical Site Engineer (HVAC and Fire Fighting).**  
From: 01/08/2012 To: 30/12/2012

Projects :

- Al Jamaa Plaza Mall, Mansoura (Egypt).

## OBJECTIVE:

Full-time position in the field of Mechanical Engineering Making significant contributions and work in teams to further the mission and goals of the organization.

## EDUCATION:

University Degree : Bachelor of Mechanical Engineering.  
 Graduation year : 2012  
 Grade : Very Good (Ranked the 20 th).  
 University : Mansoura University.  
 Graduation Project : Hydraulic Circuits Design and Maintenance.  
 Graduation Project Grade : Excellent.

## **PRACTICAL SKILLS:**

- Thermal load estimations by using HAP software.
- Ventilation (Fresh & Exhaust air) requirements as per ASHRAE.
- Achieve required air balance between adjacent spaces or zones and required air pressurization inside each space according to ASHRAE HVAC Design Manual for Hospitals & Clinics.
- Ducting layout and duct sizing by using McQuay Duct Sizer.
- Chilled water piping layout and pipe sizing.
- Chilled water pump head calculations.
- Static calculations for Air Handling Units and all types of Fans.
- Smoke Management System for all High Rise Building and Atrium including Staircase Pressurization Calculations.
- Commercial Kitchen Ventilation and Hood Design.
- Selection for All equipments like chillers, Expansion Tank & Cooling Towers.
- Coordination between other disciplines and asking for our Mechanical Requirements.
- Reply on the Quiries and Requirements coming from Contractor.

## **TRAINING COURSES:**

- 1- Design and Installation of HVAC Systems. (SMG Contracting Company)
- 2- Heavy Equipments and Diesel Engine. (Arab Contractors Company)
- 3- Diesel Engine Maintenance. (East Delta for Transport & Tourism Company)
- 4- Steam, Gas and Combined Power plants Maintenance. (Talkha Electricity Company for electricity generation).
- 5- Pneumatic Basics.
- 6- Hydraulic Pumps Maintenance .
- 7- PLC Advanced Course. (JELECOM Center, Faculty of Engineering Mansoura University).
- 8- Water treatment plants and wastewater plants. (Maritime Port of Damietta).
- 9- Solid Works Advanced Course. (JELECOM Center, Faculty of Engineering Mansoura University).
- 10- AutoCAD. (Mansoura University Scientific Computing Center)

## **SKILLS:**

- Language Skills :
  - Arabic – Native.
  - Very Good in English (Speaking, writing and reading).
  - Good in French.
- Computer Skills :
  - AutoCAD
  - Solid Works
  - Microstation
  - Revit MEP
  - Ms Office (Word, Excel & PowerPoint)
- Personal Skills :
  - Fast and self- learning
  - Searching
  - Presentation

- Leadership
- Problems solving
- Analyzing
- Time management and communication skills

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**“Your Honor,** *I believe my skills qualify me to be an ideal candidate for the current open Human Resource Specialist Position in your company.*

*I will follow up with you to discuss the possibility of an interview, In the meantime,  
Please feel free to contact me.”*