

Holds B. Sc., M. Sc. and PhD degree in Mechanical Engineering and has about 13 years hands-on experience in areas related to Mechanical Design works like Piping System, HVAC system, fire fighting calculations, hydraulic systems, irrigation system, submittal and shop drawings approval, networks design, co-ordination with the other trades and site supervision works. He is a Lecturer in Ain Shams University.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 17/09/1980  
Gender : Male  
Marital Status : Married  
Residence : Nasr City, Cairo

## EDUCATION

: B. Sc. in Mechanical Engineering, Ain Shams University, 2002  
: M. Sc. in Mechanical Engineering (Aerodynamics Branch), 2007  
: PhD degree in Mechanical Engineering (Heat Transfer), Ain Shams University, 2012

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Good

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: MS Project  
: AutoCAD  
: Hourly Analysis Programs (HAP)  
: Elite for fire fighting hydraulic calculations  
: CFD tool (AVL software & Fluent software)  
: Pipe flow expert

## CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jun. 2012 till now  
Employer : [E-Consult](#)  
Job title : General Manager

**Dates** : From May 2012 till Jun. 2012  
**Employer** : [EGYPTROL](#)  
**Job title** : Engineering Manager for EGYPTROL Building Services MEP Unit  
**Job Description** :

- Managing the MEP Building Services Engineering Unit as a Profit Center.
- Assuring that the Unit's output quality and delivery schedules are in compliance with EGYPTROL contracts.
- Assuring that all the MEP design work is performed in compliance with EGYPTROL ISO procedures.
- Suggesting Engineering procedures improvements and developing implementation upon approval.
- Providing leadership in the resolution of design and construction issues as they arise in projects.
- Identifying and minimizing areas of risk and enhancing the Unit's techniques and resources.
- Issuing regular progress reports to management.

**Dates** : From Jan. 2011 till May 2012  
**Employer** : [EGYPTROL](#)  
**Job title** : Chief Mechanical Engineer

**Dates** : From Nov. 2007 till Jan. 2011  
**Employer** : Allied Consultant Group

**Dates** : From May 2007 till Nov. 2007  
**Employer** : Crown Home Consultant

**Dates** : From Jul. 2006 till May 2007  
**Employer** : Allied Consultant Group

**Dates** : From Feb. 2005 till Jul. 2006  
**Employer** : GHD Global Egypt

**Dates** : From Nov. 2003 till Feb. 2005  
**Employer** : Allied Consultant  
**Job title** : Electro Mechanical Consultant

**Dates** : From graduation till now  
**Employer** : Ain Shams University, Faculty of Engineering  
**Job title** : Teacher Assistant  
**Job Description** : Teaching fluid dynamics, thermal power plant, measurements, heat transfer, automatic control and technical installation.

- Areas of Expertise :**
- Teaching mechanical power courses in the faculty.
  - Designing of HVAC, fire fighting water supply, plumbing systems and medical gases.
  - Participation in design concepts for different projects.
  - Co-ordination meetings with other trades architectural, civil and electrical.
  - MEP Site supervision.
  - Using CFD analysis for HVAC systems and smoke management (Phoenics Flair/Fluent).
  - Networks design for chilled water, fire fighting, water supply and drainage.

Academic experience:

- From Nov. 2012 till now:
  - Faculty of Engineering - Ain Shams University, as a Lecturer in mechanical power department, teaching refrigeration and air conditioning, HVAC applications, water desalination, technical writing, building, and supervision in graduation projects in new water and energy sources.
- From 2002 till Nov. 2012:
  - Faculty of Engineering - Ain Shams University, as a teacher assistant, teaching fluid dynamics, thermal power plant, measurements, heat transfer, automatic control and technical installation.

**Relevant experience in Engineering Design Fields:**

Hospitals:

- Al-Salam International Hospital, Cairo, Egypt.
- Tamale Hospital, Ghana.
- Banha Hospital, Egypt.
- TETE Hospital, Mozambique.

Educational:

- Al-Ain University, New Campus PPP Development, UAE.
- El-Kasseem New Campus, Saudi Arabia.
- Scientific Centre, Saudi Arabia.
- Educational Centre, Saudi Arabia.
- Hurghada American School, Egypt.
- Najran School, Saudi Arabia.
- KAU Aquarium, Saudi Arabia.

Hotels:

- Amarantee Nile Hotel, Cairo, Egypt.
- Grand HYATT Doha, Qatar.
- Shepard Hotel, Cairo, Egypt.
- Rainbow Hotel, Sharm El Sheikh, Egypt.
- Fantazia Beach Hotel, Hurghada, Egypt.
- Tiara Hotel Tower, Dubai: upon LEED regulations.
- Othman Towers, Khobar, Saudi Arabia.
- Mosa Hotel, Saudi Arabia.
- Plot 5058 Hotel, Saudi Arabia.

#### District Cooling Plants:

- Burj Dubai Development, District Cooling Plant-1, UAE.
- Burj Dubai Development, District Cooling Plant-2, UAE.
- Burj Dubai Development, Plot Area-10, UAE.
- TECOM, District Cooling Plants, Dubai, UAE.

#### Religious, Cultural and Recreational Facilities:

- Islamic Youth Centre, Hilal, Qatar.
- Al Zohour Sporting Club, Cairo, Egypt.
- Writers Village, Egypt.
- Dewa Staff Club, Dubai, UAE, Design of HVAC works.
- Resort Cove, Saudi Arabia.
- Arkan Project, Abu Dhabi.
- Motabaqa Dammam Laboratory Complex, Saudi Arabia.
- Third Saudi Expansion of The Holy Haram Makka and surrounding areas.

#### Office Buildings and Malls:

- Platinum Tower in Qatar.
- Jeddah LOTE3 Towers, Saudi Arabia
- Toyota Distribution Centre in Riyadh, Saudi Arabia.
- Plot 47, New Cairo, Egypt.
- Al-Naeem Office Building, Smart Village, Cairo, Egypt.
- Petrochemicals Office Buildings Complex, Cairo, Egypt.
- Al Raghee Complex Building, Damam, Saudi Arabia.
- Tiara Office Tower, Dubai, UAE.
- The Eighth Gate office building, Damascus, Syria.
- Police Station.
- Salwa Complex Administrative Port.
- Head Quarters of Sport Federation building, Saudi Arabia.
- Mosa Office Building, Saudi Arabia.
- Othman Office Building, Saudi Arabia.
- Deera Office Building, Jeddah, Saudi Arabia.
- Hala Mall, Egypt.
- Masrya Mall, 6<sup>th</sup> of October, Egypt.

#### Landscaping:

- Gebel Ali Palm, UAE.
- Writers Village, Egypt.
- Golf Porto Marina, Egypt.
- Four Season Sharm El-Sheikh, Egypt.
- Dammam Labor Camp, Saudi Arabia.
- Al-Safia, KSA.

#### Residential:

- Belal Complex, Qatar.
- El Marikhy Building.
- Jeddah LOT E3 Towers, Saudi Arabia.
- Sheikh Zayed City Residential Towers, Abu Dhabi.
- Maqbili Palace, Abu Dhabi.
- Laila Mousa Villa, Egypt.
- Ahmed Elraisi Tower.
- ElNafli Residential Complex, Saudi Arabia.

#### Industrial:

- Toyota Distribution Centre.
- ElMaco Factory.
- AUG Pharmaceutical Factory, Egypt.
- Bedaya Factory, Egypt.
- ElEzaby Warehouse, Egypt.
- Roots Steel Factory, Egypt.
- Green Valley Factory, Egypt.

#### Power Plants, Desalination and Water Treatment:

- El-Shabab Power Plant, Egypt.
- Damietta Power Plant, Egypt.
- West Damietta Power Plant, Egypt
- Juba Power Plant, South Sudan.
- Marsa Matrouh Desalination Plant, Egypt.
- Roots Steel Factory, Egypt.
- Azura Power Plant, Nigeria.

#### Publications:

- M. M. Abo El-Nasr, M. A. Abidou, H. A. Hussein, 2012, "Heat Transfer Characteristics of Horizontal Cylinder Cooling Under Single Impinging Water Jet", Int. Journal of Applied Sciences and Engineering Research, Vol. 1, No. 2, pages 287–301.
- M. M. Abo El-Nasr, M. A. Abidou, H. A. Hussein, 2012, "Heat Transfer Characteristics of Horizontal Cylinder Cooling Under Triple Impinging Water Jet", Journal of Al-Azhar University.
- M. M. Abo El-Nasr & H. A. Hussein, 2013, "Heat Transfer Characteristics of Horizontal Cylinder Cooling Under Single and Triple Impinging Water Jet", Int. Journal of Engineering Research, Vol. 1.Issue.1:2013.

#### Speaker at:

- 2<sup>nd</sup> Conference of Occupational Health and Infection Control Inside Hospitals: Mar. 2014 - Main Conference Center – Faculty of Medicine – Cairo University.
- The surgical Site Infection Prevention Seminar: Jun. 2014 – New Kasr Al Ainy Teaching Hospital.

#### Attendee at:

Train-the-Trainer Program on Solar Thermal: from Apr. till Jun. 2014 in Cairo.

#### R&D at:

- Developing the chocolate coating machine at Green Valley Factory in Egypt – contributing in the air side part.
- Developing Post Treatment Scheme in RO Water Desalination – through supervision on a graduation project sponsored by TAM Environmental.