

Holds B. Sc., M. Sc. and PhD degree in Mechanical Engineering and has about 18 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 Assistant Professor in Ain Shams University.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 17/09/1980  
Gender : Male  
Marital Status : Married  
Residence : New 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 (Fire AVL software & Fluent software)  
: Pipe flow expert

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Oct. 2015 till now  
**Employer** : HAP Engineering  
**Job title** : Managing Director

**Dates** : From Jun. 2012 till Sep. 2015  
**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 2002 till now  
**Employer** : Ain Shams University, Faculty of Engineering  
**Job title(s)** : Teacher Assistant / Assistant Professor

- 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 Assistant Professor in mechanical power department, teaching refrigeration and air conditioning, HVAC applications, water desalination, technical writing, solar energy systems, project management, 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.
- Al Arab Hospital, Mansoura, Egypt.

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.
- KAU Media Center, KSA.
- Al-Safya KG School, KSA.

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.
- Jeddah Hotel by Marriot and RLH Architect, KSA.
- Yanbu Hotel by Marriot and RLH Architect, KSA.

#### 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.
- Gabal Omar Extension DCP 10,000TR (Technical Support), KSA.

#### 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.
- ElNafi Residential Complex, Saudi Arabia.
- Global View Villas Compound in 6th of October, Egypt.
- Al Azzazi Villas Compound in Shorouk, Egypt.

Industrial:

- Toyota Distribution Centre.
- EIMaco Factory.
- AUG Pharmaceutical Factory, Egypt.
- Bedaya Factory, Egypt.
- EIEzaby Warehouse, Egypt.
- Roots Steel Factory, Egypt.
- Green Valley Factory, Egypt.
- BTTD Factory, KSA.
- Oilex Factory, Al Sadat City, 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.
- 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.
- Solar Thermal Courses for Graduated Engineers, by Renac.

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.