

Holds a B. Sc. in Mechanical Power Engineering and has about 6 years hands-on experience working in design field.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 22/02/1989  
Gender : Female  
Residence : Nasr City, Cairo

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2011  
: Secondary Education: Manaret Al Kahera, 2006  
: Registered M. Sc. Student at Ain Shams University

## LANGUAGES

Arabic : Native Language  
English : Very Good  
French : Basics

## COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet  
: Autodesk Revit, AutoCAD, KY pipe, EES, WATERCAD, HAP, Civil 3D  
: Sewer Cad, Solid Works, Matlab

## TRAINING COURSES AND CERTIFICATIONS

: Trainings at:  
• ECG Company (2009):  
- Designing of plumbing systems.  
- Designing of fire fighting systems.  
• Egypt Air (2009):  
- Knowledge of aircraft engine technologies and parts.  
• Hydro Consult Office (2010):  
- Water hammer protection system designing.  
: Visits:  
• Anshas Reactor.  
• El-Kureimat Solar Power Plant.  
• Zaafarana wind site.  
• North Cairo Power Plant.

: English: TOEFL local test certificate with score 500.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Sep. 2015 till Sep. 2016  
**Employer** : SBS (Smart Building Solutions)  
**Job title** : Mechanical Engineer  
**Job Description** : Design, shop drawing and coordination for MEP works for buildings.

**Dates** : From Jan. 2012 till Jun. 2015  
**Employer** : Hydro Consult Office for environmental engineering projects  
**Job title** : Mechanical Engineer  
**Job Description** :

- Pipeline surge analysis.
- Pipeline hydraulic analysis.
- Water and waste water pump station design.

**Dates** : From Oct. 2013 till now  
**Employer** : American University in Cairo (AUC)  
**Job title** : Research Assistant  
**Job Description** : Project: thermal energy storage using phase change material.

**Dates** : From Sep. 2012 till Dec. 2012  
**Employer** : American University in Cairo (AUC)  
**Job title** : Teacher Assistant  
**Job Description** : Course: Applied Thermodynamics.

**Dates** : From Mar. 2012 till Sep. 2012  
**Employer** : American University in Cairo (AUC)  
**Job title** : Research Assistant  
**Job Description** : Project: solar decathlon competition.

**Dates** : From Sep. 2011 till Jan. 2012  
**Employer** : Hydro Consult Office for environmental engineering projects  
**Job title** : Research Engineer  
**Job Description** : Research project: Designing of Organic Rankine Cycle (ORC) system working with evacuated tube solar collector field to produce net electric power of 10 KW.

### **Projects:**

- Ajman sewage water pipeline – UAE: surge and hydraulic analysis.
- Al Minia and Al Shorafa pipelines: surge and hydraulic analysis.
- Abohammad pump station: surge and hydraulic analysis, surge vessel design.
- Al Asher men Ramadan P.S: surge and hydraulic analysis, surge vessel design.

- Tanan pump station: surge and hydraulic analysis.
- Tafahna Alazab P.S: surge and hydraulic analysis.
- Albatran P.S: surge and hydraulic analysis.
- Al Amerya P.S: surge and hydraulic analysis.
- Badr P.S: surge and hydraulic analysis.
- Naga Hammadi P.S: surge and hydraulic analysis.
- 26 Villages Project: surge and hydraulic analysis for 26 pipelines.
- New Borg Al Arab P.S: surge and hydraulic analysis.
- Marsa Matrooh P.S 7: surge and hydraulic analysis.
- Kafr Hassan P.S: surge and hydraulic analysis.
- Main and Sub Kranchu Pump stations: surge and hydraulic analysis.
- KISR pipeline: Pipeline stress analysis.
- Sabah El Salam University City – Kuwait: Hydraulic analysis for chilled water network.
- Al Barada W.W.T.P: Waste water pump station Design – KSA.
- Borg Al Arab P.S: Pump station Design.
- Al Minia P.S: Shop drawing.
- 10 administration buildings in KSA: MEP systems design.
- 3 colleges in Jazan University: MEP systems shop drawing and coordination.

Publications:

Review of the phase change material (PCM) usage for solar domestic water heating systems (SDWHS).