

## Professional Resume

Antar Mohamed Mustafa Salama

**PIPING AND LAYOUT ENGINEER**

**Country** Egypt

**Mob.** +201064724668

**E-mail :** [antar.mustafa@gmail.com](mailto:antar.mustafa@gmail.com)



### Profile

Mechanical engineer having 18 years' experience in 3D CAD modeling plant design, layout arrangement, stress analysis and so having experience in piping construction including fabrication and erection,

**Fields:** Oil& Gas, Power station and Petrochemical industry projects.

Having awareness of human and project safety especially live gas works.

Work well under pressure and achieve required jobs in the optimum time.

An organization that empowers its employees with knowledge encourages teamwork, have flexibility in communication between team-group and have enough space to fully employ my experience & skills.

I am equally eager to acquire the necessary experience.

### Summary of Personal Data and Experience

**Name :** Antar Mohamed

**Date of Birth:** November 16th, 1973

**Place of Birth:** Egypt

**Nationality:** Egyptian

**Marital Status:** Married

**Military Status:** Exempted

**Education:** B.Sc. Mechanical Power Engineering

**Present position:** Piping Engineer

**Linguistic Abilities:** Arabic (mother tongue)& English (good)

**Experience :**

- Familiar with standards and codes like ASME / ANSI, AISC
- Development Plot Plan & Equipment Layout
- Piping design and stress analysis against P&ID line designation table.
- Generating piping general arrangement.
- Piping bill of materials.
- Pipe support design.
- Pipe supports bill of Materials

**Career history :**

1. **ABB** (Client Khalada) Sep. 2007 till March. 2009
2. **Evermac** April.2009 to March.2010
3. **Initec Energia** April.2010 to June 2011
4. **Uhde Engineering Egypt (UEE)** June.2011 to Aug 2012
5. Power System Projects—**PSP** Aug. 2012 till Oct. 2014
6. GS E&C Nov.2014
7. AMC Technical Manager in Dammam/Saudi Arabia 2015/2017
8. CEO of ANEW Antar Mustafa for Engineering Works (Current)

# CV

---

## Education

### **B.Sc. Power Mechanical Engineering:** **Shoubra Faculty of Engineering, Benha University;**

Graduation Year: July, 2007.

Last Year Grade: Very good

Graduation Project Grade: Excellent

Cumulative Grade of the Five years: (64.98%)

### **Graduation Project:**

Its name: ***Piping system analysis***

The project topic was about "*The Analysis of piping system (Hydraulic Transient) in Pipelines using the method of characteristics*"

• With the aid of programming language (**Matlab**), a program is developed for modeling

pressure and volume flow rate in pipelines due to pump failure and different valve closures and for modeling of control devices and comparing the results with **Aft Fathom product** modeling in piping systems.

### **High School Certificate:**

Anshas Secondary School; Math Section.

Sharkia, Bilbeis Administration

## Language & IT skills

### **Language:**

1. **Arabic:** Mother Tongue

2. **English:** Fluently speaking, writing & reading

### **IT:**

1. Windows and Networks.

2. Internet *Applications*

## Training courses & Piping Knowledge

### **Elementary Course for Piping System entails the following:**

1. Hardy Cross technique to analyze the pipeline systems
2. The phenomenon of water hammer and protection
3. Pipe drafting and design
4. ASME B31-1-2004 Power piping
5. P&ID " Piping &Instrument Drawing"
6. GA Drawing" General Arrangement"
7. Pipe Hangers& Supports
8. PDMS piping &Equipment design, Draft and Isodraft.
9. Caepipe piping stress analysis
10. Design Criteria

# CV

## Engineering programs

1. Power Point (Excellent presentation skills)
2. Excel (powerful knowledge of excel)
3. Microsoft office Word
4. Microsoft office Outlook
5. Microsoft office Access
6. AutoCAD
7. Matlab Programming
8. Aft Fathom product modeling in piping systems
9. PDMS piping design, Equipment ,Isodraft and Draft
10. Caepipe piping stress analysis

## Career History

- 1. GS E&C (TO)**  
PDMS spooling & check design  
Project Egyptian Refinery in Mostorod

### **Duration**

From: Oct 2014

To: till now

- 2. PSP Power System Projects Co.**

Pipe Support Design Engineer(mainly)

Piping Design Engineer (as built)

### **Duration**

From: August 2012

To: till 6/2014

**Project 1** : El Ain El Sokhna supercritical thermal power plant 2x650MW

**PSP** – Power System Projects - is subcontracted by **VEOLIA**

**Contract no:** CP111(Water treatment and desalination systems)

**Consultant :** **PGESCO** **Cleint:** East Delta Electricity Production Company **EDEPC**

### **Job Description:**

1. Determination locations of pipe supports on ISOS designed by Veolia engineering department according to ASME B31.1 criteria and select suitable steel frames according to **PGESCO** CPS (Contract Package Specification) or design frames of pipe supports if no std according to **AISC (American Institute of Steel Construction)** to release new issues revisions of isometrics for construction.
2. Design piping isometrics for some lines missing designed by Veolia as Air Heater area.
3. Issuing As Built of all piping isometrics in site.
4. Acting as the site T.O engineer for the remains works after T.O resign.
5. Acting as the site material engineer for the remains works.
6. Acting as the site planner for the remains works.

**Project 2** : ABOQIR power plant 2x650MW units 6&7

**PSP** – Power System Projects - is contractor join venture **ZTPC**

**Contract no:** CP118(Water treatment and desalination systems)

**Consultant :** **PGESCO** **Cleint:** East Delta Electricity Production Company **WDEPC**

### **Job Description:**

1. Determination locations of pipe supports on ISOS designed by **FPI** engineering department according to ASME B31.1 criteria and select

suitable steel frames according to *PGESCO* CPS (Contract Package Specification) or design frames of pipe supports if no std according to *AISC (American Institute of Steel Construction)* to release new issues revisions of isometrics for construction.

### **3. UHDE ENGINEERING EGYPT (UEE) Co.**

Piping Design Engineer  
Piping and Layout Department

#### **Duration**

From: December 2011

To: July 2012

**UHDE** focuses its activity on the Engineering & consultants of petrochemical plants and its facilities, its web site [www.thyssenkrupp.com](http://www.thyssenkrupp.com)

#### **Projects:**

1-AMMONIUM SULPHATE ALEXFERT

**Location:** Egypt (Alexandria)

**Job Description:** I'm working by using **PDMS** and AutoCAD to do of :

1. General Arrangement drawings (GA).
2. Steel structure layout,
3. Equipment arrangement.
4. Civil Design Drawing.
5. Pumps Foundations, Formwork and Reinforcement Drawings
6. Ducts and shoots dimensioning for isometrics.
7. Equipment Fixing Drawings.
8. Special Supports (Design)
9. Nozzle Orientation
10. Fabrication and installation drawings of transition pieces(Ducts and shoots) between equipments.

### **4. PIPING DESIGN ENGINEER using software PDMS at INITEC Energía SA Co. (Egypt Branch).**

#### **Duration**

From: May 2010

To : July 2011

**INITEC Energía** focuses its activity on the Engineering & construction of electricity generation facilities, its web site [www.initec-energia.com](http://www.initec-energia.com)

I'm joined in INITEC Energía (Cairo office) in April 2010 Worked in position piping design engineer in power station projects implemented by the INITEC Energía company inside and outside Egypt using software **PDMS**.

#### **Projects:**

1- MANCHASOL-1,2(planta termosolar 2X50MW)

**Location:** Spain.

**Consultant:** § Cobra.

**Job Description:** 1- I worked by using **PDMS**(Draft module) to release updating of Piping Arrangement drawings ( putting the labels of piping and its components valves ,instruments and supports) and so putting dimensions and coordinates all of this.

2- Cairo West Power Plant ( 2 X 350 MW Thermal p.p.).

**Owner:** Egyptian Electricity Authority.

**Consultant:** Power Generation Engineering and Services Company (**PGESCO**).

**Location:** Egypt

**Job Description:**

Design (Create small bore AS\_BUILT) of all piping systems in Cairo West power station to release isometric As built issue Material Take Off (MTO).

**5. Co. Name: EVRMaC**

PDMS piping designer and Caepipe Stress analyst.

**Duration:** 04/2009 to 04/2010

Subcontracted by Initec Energia SA for plant piping design, critical piping stress analysis, special supports designs, MTO, ISOS, and as built.

**Projects:**

1-Nuberia Power Plant III (750MW combined cycle project).

2-Tebbin Power Plant ( 2 X 350 MW Thermal power plant).

3-Cairo West Power Plant ( 2 X 350 MW Thermal p.p.).

**Owner:** Egyptian Electricity Authority.

**Consultant:** (PGESCO).

**Location:** Egypt

**Contractor:** Initec Energia SA

**.Job Description:**

1- Design of all piping systems in power plants "simple cycles or combined "buildings per standard code (ASME B31.1\_2004), to release isometric issue for approval contains (BOM) and if design ok then release issue for construction.

2-Stress analysis of pipeline if temperature of flow during operating more than 204°C, taking accounts movement of wind and seismic.

**Site visit:**

I made several visits to the Nubaria Power Plant III for:

1-study the site

2-modify some of the designs for non-completion model

3-attend meetings with owner to discuss the reports and designs.

**6. Co. Name: ABB**

**SITE:** Khalda Projects Maintenance (Egypt)

**Client:** Khalda Petroleum Company (KPC)

**Responsibilities:** Piping Engineer

**Duration:** 09/2007 to 02/2009

**Job Details:**

Construction "oil, gas and water" pipelines from wells to manifolds and at facilities

"Khalada, Kahraman, Khepri, Umbaraka and Tarek"facilites

Installation valves, pumps, tanks and all of equipments.

Extend a lot of flow lines at fields of khalada and sumpetco

"Piping" fabrication workshops monitoring Carbon steel materials.

Monitoring all activities starting with material inspection and insure

That is identical with the drawings and continuously makes Fit□up

Inspection on "Dimensions, Materials, Sizes, Rotation angles,

Clearance gap, misalignment, numbering & Tagging,

Welding Visual inspection and finally hydrostatic test.

Prepare daily Fit□up and Welding Reports including inch dia.

Completed and balance to be fabricated as per planned target

And available materials Monitoring all Safety activities inside the workshop.

& Available & issued materials Maintenance of existing piping system.

**7. Co. Name: ECCO SPI**

**Position:** Piping Supervisor

**Duration:** 02/1996 to 08/2007

**Job Details:**

"Pressure Vessels" fabrication workshops monitoring Carbon steel and follow all the steps mentioned above but in the construction of pressure piping& vessels.

This a period has advised me to understand the Equipment Drawings

And its connections so these vessels is an important parts of piping systems

**(This experience gained through my work at Sites informed me greatly benefit in my Career "Piping Design")**