C.V.
Mohamed Osama Ghoneim

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Roles	• **Lead Piping Engineer** • **Project / Mechanical / Industrial Engineer** • **Engineering Management**
Projects	Oil & Gas - Petrochemical - Power Plant - Industrial
Experience	Egypt (4 Years) - Saudi Arabia (10 Years) - Qatar (1 Year)

1. PROFILE SUMMARY

- I'm an Egyptian mechanical engineer with experience since 2005, in Oil & Gas, petrochemical and power plant projects.
- I have worked in Arabian and international companies in many countries including:
  - **Egypt** → WorleyParsons - ThyssenKrupp (Uhde) Co. - Advansys Co.
  - **Saudi Arabia**→ Intecsa (Dragados Gulf) Co. - NESMA Co. - Arabian BEMCO - SSEM
  - **Qatar** → Al Jaber &Partners Co.
  - **Spain** → Engineering Technical meetings for Aramco Project.
- I have worked in mega projects owned by companies including:
  - **Saudi Aramco** → NJBP Project - AWIS Project - MTGP Project.
  - **Qatar Petroleum & Shell** → GTL project.
  - **SABIC** → Poly-Oxy-Methylene (POM) Project
  - **Saudi Electricity Company** → Power Plant PP10 project
  - **GUPCO / British Petroleum** → Offshore Platforms Rehab Project.

2. EDUCATION

(1) Main Degree

- **Title** : B.Sc. of Mechanical (Production) Engineering, June 2004.
- **University** : Faculty of Engineering, Alexandria University, Egypt.

(2) Other Degrees

- **Title** : Postgraduate diploma of Management Polices, Jun 2007.
- **University** : Alexandria University, Egypt.

3. LANGUAGES

• **Arabic:** Native	• **English:** Fluent	• **German:** Basics

4. COMPUTER SKILLS

• MS Word, Access, Excel, Power Point	• AutoCAD
• SmartPlant 3D	• SmartPlant Spoolgen
• CadWorx Plant (Piping)	• SmartPlant Review (SPR)
• Navisworks JetSteam	• SmartPlant Isometrics
• AutoPlant (Piping).	• PDMS
• Solid Edge.	• PDS (Piping & Equipment)
• Qunatapoint Prism 2D & 3D (Laser Scanning)	• C#.NET
• CT C3D interactive	• CAESAR II

5. WORK HISTORY

- **NESMA & Partners**
  - **Position : Lead Piping Engineer (Design) | Project Engineering Management.**
  - **Period:** May 2019 – May 2021
  - **Projects 1:** Abqaiq Water Injection System (AWIS).
  - **Project 2:** Tanajib Gas Plant (MTGP14)
  - **Owner :** Saudi Aramco
  - **Work Locations:**
    1. Design Office: Worley Design Office, Khobar, Saudi Arabia
    2. Design Office: SNC-Lavalin Fayez Engineering (SLFE), Khobar, Saudi Arabia.
    3. Technical meetings: GIM hosted by TR, Madrid, Spain.
  - **Scope of work:**
    1. Coordinate Engineering activities including design review & comments closure.
    2. Represented Engineering Department in GIM meetings in Madrid, Spain.
    3. Prepare technical packages for vendors bidding.
    4. Review Design and Engineering documents / Drawings / packages.
    5. Review Technical Queries, material Requisitions and Technical Bid Evaluations.
    6. Provide Engineering/Technical support to various departments including Project Management, Procurement, Quality Control and Construction.

- **Saudi Services For Electro Mechanic Works (SSEM)**
  - **Position : Lead Piping Design Engineer**
  - **Period:** July 2017 - Feb 2019.
  - **Location (Design):** Jacobs, Khobar Office, Saudi Arabia.
  - **Location (Site):** Aramco NJBP, Jeddah, Saudi Arabia.
  - **Project:** North Jeddah Bulk Plant (NJBP) Expansion Project.
  - **Owner:** Saudi Aramco
  - **Scope of work:**
    1. Review Design and Engineering documents / Drawings / packages.
    2. Review 3D model and piping design progress.
    3. Review Technical Queries, material Requisitions and Technical Bid Evaluations.
    4. Review Tie-ins and Hot tapping requirements.
    5. Evaluate Tendering proposal against the actual project deliverables.
    6. Provide Engineering/Technical support to various departments including Project Management, Procurement, Quality Control and Construction.

- **Intecsa / Dragados Gulf Co.**
  - **Position : Mechanical Engineer / Piping Coordinator**
  - **Period:** September 2015 - September 2016.
  - **Project :** POM Project (PolyOxyMethylene Project)
  - **Owner:** SABIC / Ibn Sina - Celanese
  - **Location of Project:** Jubail, Saudi Arabia
  - **Scope of work:**
    1. Review Piping related drawings, document and markups including Piping Test Packages folders, P&IDs, Isometric weld maps, … etc
    2. Coordinate piping Test packages activities.
    3. Report test packages progress done by different departments.

- **Arabian Bemco Co.**
  - **Position: Lead Mechanical Piping Design Engineer.**
  - **Period:** January 2012 - June 2015.
  - **Locations:**
    1. Head Office, Jeddah, Saudi Arabia
    2. PP10 CC Power Plant project site, Saudi Arabia.
    3. PP12 CC Power Plant project site, Saudi Arabia.
    4. BII Fabrication Facility, Riyadh, Saudi Arabia
    5. BSI Fabrication Facility, Jeddah, Saudi Arabia
  - **Projects Summary & Scope of work:**
    a) BII Fabrication Facility: Team Leader of Mechanical Piping engineering team to support pipe fabrication activities.
    b) PP10 Power Plant Project (5000 MW): Mechanical Piping engineering to support the project mechanical / piping engineering activities.
    c) PP12 CC Power Plant Project (2175 MW): Mechanical Piping engineering to support the project mechanical / piping engineering activities.
    d) BSI: Mechanical Piping engineering and management to support pipe fabrication activities.

- **Uhde Engineering Egypt (Thyssenkrupp Industrial Solutions)**
  - **Position : Piping Engineer.**
  - **Period:** September 2010 - January 2012.
  - **Location:** Head Office, Cairo, Egypt.
  - **Projects Summary:**
    a) EFC I & II Revamp Project for Egyptian Fertilizing Company.
    b) Ammonium Sulphate Project for Alex. Fert.
  - **Scope of work:**
    a) Senior engineering and design review activities.
    b) PDMS Design Activities.
    c) Piping steam heat tracing design.
    d) Handling and communicating piping related issues with process team.
    e) Other senior activities.

- **WorleyParsons**
  - **Position : Piping Design Engineer.**
  - **Period:** October 2008 - September 2010 (excluding 5 month worked in GTL project in Qatar)
  - **Location:** Head Office, Cairo, Egypt.
  - **Projects Summary:**
    a) Muzhil Field project Development for Petrozenima
    b) North Shadwan project for Gulf of Suez Petroleum Company Gupco.
    c) Akik Plant Relocation project for Khalda Petroleum Company.
    d) Karama Power Plant project for Qarun Petroleum Company.
    e) Waste Heat Recovery project for ELNG.
  - **Scope of work:**
    a) Preparing and checking various piping documents including Piping layout (GA`s), Piping Isometrics, Equipment arrangement drawings, and Material take off (MTOs).
    b) Piping and Equipment Design Using PDS and AutoPlant.
    c) Lead a piping team for a green field offshore platform design project (Muzhil).
    d) Preparing piping Specifications with referring to Process Industry Practices PIP and other codes.
    e) Preparing Valves Data Sheets & Piping Material Classes.

f) Tanks nozzles orientation design.
g) Preparing Cost, Time and Resource sheet (CTR) for piping scope and managing piping deliverables.
h) Handling of Project hand-over and Holds Register for piping.

- **Aljaber & Partners - GTL Project for Qatar Petroleum and Shell**
  - **Position : Mechanical Piping Technical Office Engineer.**
  - **Period:** December 2009 – May 2010 (During the period of working for WorleyParsons)
  - **Location:** RasLaffan Industrial City, Qatar**.**
  - **Project:** The Pearl Gas to Liquids (GTL). It is the world's largest GTL plant and one of the world's largest, most complex and challenging energy projects ever commissioned.
  - **Owner:** a joint venture of Shell and Qatar Petroleum
  - **Scope of work:**
    a. Provide mechanical piping engineering technical office support for site construction activities including handling site issues, Engineering technical office support for Piping Color Code and stenciling activities.
    b. Preparing piping redesign solutions and communicating them to the design partner.
    c. Reviewing of test packages, welding maps and as built activities.

- **Advansys – Rehab Project for Gupco and British Petroleum (BP).**
  - **Position : Project Engineer / Mechanical Piping Design Engineer.**
  - **Period:** December 2006 - October 2008
  - **Locations:**
    a. **Office:** Enppi Rehab Building, Cairo, Egypt.
    b. **Site:** Gupco onshore plant / offshore platforms, Ras Shukir, Egypt.
  - **Project:** Rehab - Offshore platforms Rehabilitation
  - **Owner:** Gulf of Suez petroleum Company (GUPCO) and British Petroleum (bp)
  - **Scope of work:**
    a. Using QunataPoint Prism 2D & 3D (Laser Scanning Software) to develop:
       i. Piping and Pressure Vessel 3D drawings.
       ii. Making Clashing check for the 3D Design Model vs real Laser model of the existing plant.
    b. Preparing various piping documents including Equipment arrangement, piping isometrics, Material take off, Constructability Reports … etc for oil platform using CADWorx Plant & AutoCAD (2D and 3D) and Qunatpoint Prism.
    c. Trained for using of PDMS software (Piping and Equipment modelling)

- **Forming Co. For Metal Formation.**
  - **Position : Mechanical Design Engineer.**
  - **Period :** April 2006–November 2006
  - **Location:** Alexandria, Egypt.
  - **Scope of work:**
    a. Reverse engineering for design and redesign of molds, mechanical machine parts and assemblies using solid edge software.

- **Alexandria Shipyard Co.**
  - **Title : Industrial Engineer.**
  - **Period :** December 2005 – March 2006
  - **Location:** Alexandria, Egypt.
  - **Field of Experience:**

a. Trained for Manufacturing Techniques used to manufacture machines and ship components.
b. General Orientation around various workshops including chemicals production, piping fabrication, ship construction, ship maintenance, steel structure fabrication workshops.
c. Ship Construction and Maintenance Fundamentals.

- **Egyptian Obligatory Military Service**
  - **Period :** Oct 2004 – Dec 2005
  - **Location:** Egyptian navy forces, Ras el Tin naval base, Alexandria, Egypt.
  - **Experience Field:** Database management and development.

6. TRAINING & Courses

1) **Intergraph SmartPlant 3D – Piping and Equipment Reference Data**
   - **Date:** Sep, 2014
   - **Location:** Arabian Bemco Co, Head Office, Jeddah, Saudi Arabia
   - **Trainer:** Atheeb Intergraph Co.
   - **Contents:** SP3D Piping and Equipment Reference Data.
2) **Intergraph SmartPlant 3D – Structural Reference Data**
   - **Date:** November, 2014
   - **Location:** Arabian Bemco Co, Head Office, Jeddah, Saudi Arabia
   - **Trainer:** Atheeb Intergraph Co.
   - **Contents:** SP3D Piping and Equipment Reference Data.
3) **Intergraph SmartPlant 3D – Designer Series**
   - **Date:** Nov, 2013
   - **Location:** Arabian Bemco Co. , Head Office, Jeddah, Saudi Arabia.
   - **Trainer:** Atheeb Intergraph Co.
   - **Contents:** SP3D design for Piping, Equipment, Structure, cable trays and piping supports 3D modeling.
4) **Piping Stress Analysis:**
   - **Date :** August 2009.
   - **Trainer :** Namaa Engineering & Trading, Egypt.
5) **Intergraph SmartPlant Spoolgen**
   - **Date:** Dec, 2012
   - **Location:** Arabian Bemco Co , BII, Riyadh, Saudi Arabia.
   - **Trainer:** Atheeb Intergraph Co.
   - **Topic:** Using software to produce automated piping weldmap drawings, material reports and weld reports.
6) **Intergraph SmartPlant Isometric**
   - **Date:** July, 2012
   - **Location:** Arabian Bemco , BII, Riyadh, Saudi Arabia
   - **Trainer:** Atheeb Intergraph Co.
   - **Topic:** Using software to draw intelligent piping isometric files.
7) **CCT C3D interactive**
   - **Date:** May, 2014
   - **Location:** CCT Office, Beirut, Lebanon
   - **Trainer:** CCT Co.

- **Contents:** C3D interactive - BIM-based project construction control application for analyzing key construction information, based on actual progress.

8) ISO9001:2008 Internal Auditor

- **Date:** Dec, 2012
- **Location:** Arabian Bemco Co., BII, Riyadh, Saudi Arabia.
- **Trainer:** Moody International S.A, Ltd.

9) Introduction to ISO 9001:2008

- **Date:** Aug, 2012
- **Location:** Arabian Bemco Co., BII, Riyadh, Saudi Arabia.
- **Trainer:** Moody International S.A, Ltd.

10) Plant Design Management System (PDMS)

- **Date :** 2010 (on job training).
- **Location :** Thyssenkrupp Uhde, Egypt.
- **Course Contents:** On job training - General and Piping design modules of PDMS.

11) GRP and GRVE Piping

- **Date :** Jan, 2010.
- **Location :** Aljaber, GTL Project, Qatar.

12) Shell / Qatar Petroleum – GTL Project Training Center

- **Date :** May, 2010**.**
- **Location :** Shell Center, Ras Laffan, Qatar.

12.1. Incident and Injury Free Supervisor skills.
12.2. Productivity Through Planning and Organizing
12.3. Hydrogen Sulphide H_2S Awareness.
12.4. Hand Safety and Manual Handling.
12.5. Mechanical Joint Integrity.
12.6. Non Destructive Examination.
12.7. Introduction to Flawless Startup Initiation, PTW & TSTI.
12.8. Quality Control.

13) ASME Diploma – Inspection Academy

- **Date :** September, 2017**.**
- **Location :** Inspection Academy, Alexandria, Egypt.

13.1. ASME B31.3 (Process Piping)
13.2. ASME IX (Qualification Standard for Welder Procedure, Welder and Welding Operators)
13.3. ASME V (Non Destructive Testing).
13.4. ASME B31.1 (Power Piping)
13.5. ASME VIII (Rules for construction of Pressure Vessels)

14) Plant Design System (PDS)

- **Date :** 2009.
- **Location :** WorleyParsons, Egypt.
- **Course Contents:** Piping and Equipment design using PDS software.

15) Piping Stress Analysis and CAESAR II

- **Date :** September 2009.
- **Location :** WorleyParsons, Egypt.

16) Centrifugal Pumps:

- **Date :** 2009.
- **Location :** WorleyParsons, Egypt.

17) Risk Assessment

- **Date :** 2009.
- **Location :** WorleyParsons, Egypt.

18) Offshore Pipelines Cathodic Protection (Seminar)

- **Date** : 2009.
- **Location** : WorleyParsons, Egypt.

19) Offshore Pipelines Bottom Stability (Seminar)

- **Date** : 2009.
- **Location** : WorleyParsons, Egypt.

20) ASME (American Society for Mechanical Engineers) :

20.1. Power Piping Design and Fabrication ASME B 31.1

- **Date** : Feb 2008.
- **Location** : AUC (The American University in Cairo), Egypt.

20.2. Selection and Operation of Pumps for Petroleum Facilities.

- **Date** : Jan 2008.
- **Location** : AUC (The American University in Cairo), Egypt.

20.3. Design and Fabrication for Pressure Vessels (ASME Section VIII Division 1).

- **Date** : March 2008.
- **Location** : AUC (The American University in Cairo), Egypt.

20.4. Design and Fabrication for Pressure Vessels (ASME Section VIII Division 2).

- **Date** : Feb 2008.
- **Location** : AUC (The American University in Cairo) , Egypt.

20.5. Repair and Alteration of Pressure Vessels

- **Contents** : Including API 579 Recommended Practice, NBIC (National Board Inspection Code) and NDT essentials.
- **Date** : March 2008.
- **Location** : AUC (The American University in Cairo) , Egypt.

21) Fire Fighting (Safety)

- **Date** : 2008.
- **Location** : Gulf of Suez Petroleum GUPCO (Ras Shukir), Egypt.

22) Plant Design Management System (PDMS)

- **Date** : 2007.
- **Location** : Advansys, Egypt.

23) MCAD.NET (Software development course)

- **Date** : Jan, 2008.
- **Contents** : C#.NET, ASP.NET, SQL, ADO
- **Location** : IBM, Egypt.

24) Quality Management System ISO-9001:2000

- **Date:** July, 2006
- **Location:** Forming Co., Alexandria, Egypt.
- **Trainer:** Chosenfew, Experts & Consultants.
- **Topic:** Understanding of International Standard Requirements for Quality Management System ISO-9001:2000

25) English for International Communication (New Interchange)

- **Date** : 2006.
- **Location** : LCSE, Alexandria, Egypt.
- **No. of levels:** 13 of 13.

26) AutoCAD

- **Date** : 2006.
- **Location** : LCSE, Alexandria, Egypt.
- **No. of levels:** 4 of 4.

7. SUMMER TRAININGS (During University Stage)

1) **Year : 2001**
   - **Company : WEPCO (Western Desert Operating Petroleum Company)**
   - **Location:** Onshore gas processing Field, Alexandria, Egypt.
   - **Department:** Workshops and Cranes Department.
   - **Topic:** Cranes and Mechanical Maintenance.
2) **Year: 2002**
   - **Company: SUMED (The Arab Petroleum Pipelines Co.)**
   - **Location:** Sidi kerir Terminal, Alexandria, Egypt.
   - **Department:** Marine units Maintenance Dept.
   - **Topic:** Marine Units and Diesel Engine Maintenance.
3) **Year: 2003**
   - **Company : WEPCO (Western Desert Petroleum Company)**
   - **Location:** Onshore gas processing Field, Alexandria, Egypt.
   - **Department:** Gas Fields.
   - **Topic**: Pipe Lines Welding and Non-Destructive Testing.

8. PERSONAL SKILLS

- Fast and self-learner, Self-motivated, initiative and persistent.
- Ability to work independently and as a team member.
- Good Communication Skills.

9. MEMBERSHIP

- Member of Egyptian Engineers Syndicate.
- Member of Saudi Council of Engineers.

10. PERSONAL INFORMATION

- **Full Name** : Mohamed Osama Fouad Mohamed Ghoneim
- **Nationality** : Egyptian.
- **Mobile (Egypt)** : 0020 - 1110009095
- **E-mail** : engineer.ghoneim@gmail.com
- **LinkedIn** : www.linkedin.com/in/ghoneim700
- **Date of Birth** : 1/1/1983.
- **Marital Status** : Married.
- **Driving License** : Valid (Egypt - Saudi Arabia)