

Holds a B. Sc. in Mechanical Power Engineering and has over 5 years hands-on experience, including 4 years working in HVAC, Fire Fighting and Plumbing design.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 27/08/1989
Gender : Male
Marital Status : Single
Residence : Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Zagazig University, 2011

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD
: Revit MEP 2018
: Hourly Analysis Program (HAP)
: Elite program (CHVAC & RHVAC)
: Elite Duct Size
: Elite Fire Fighting
: Elite Plumbing
: Bentley Water CAD (Infrastructure)
: Bentley Sewer CAD (Infrastructure)
: Bentley Microstation V8i (Drawing)
: Solid Works (3D Modeling)
: MS Project (project management)

TRAINING COURSES AND CERTIFICATIONS

: Project Management Professional (PMP), under supervision of Engineering Tarcks Company for Training with the certified trainer Engr. Mohamed Raslan (Jul. 2018).

- : Building Management System (BMS), under supervision of Cadres Makers Training Center (Oct. 2017).
- : REVIT MEP 2018, under supervision of CAD Master Instructor (Sep. 2018).
- : REVIT MEP 2014, under supervision of BIM Master Instructor (Oct. 2014).
- : Solid Works 2009, under supervision of International Center Training (ICT) (Feb. 2011).
- : Heating Ventilation and Air Conditioning (HVAC), under supervision of ELAMIN Company for electro-mechanical works (Aug. 2013).
- : Fire Fighting, under supervision of ELAMIN Company for electro-mechanical works (Jun. 2013).
- : Operating and Control for Electrical Machines, under supervision of Industrial Training Council (ITC), at Ministry Commerce and Industry (Aug. 2010).
- : Hydraulic Control Circuits, under supervision of Industrial Training Council (ITC), at Ministry Commerce and Industry (Jul. 2010).
- : Diesel Engine Fundamentals, under supervision of Sharkia Syndicate of Engineers (Apr. 2013).
- : Car's Conversion System to Compressed Natural Gas Fuel, under supervision of Mechanical Power Department in Faculty of Engineering at Zagazig University (Apr. 2011).
- : Training for two months at HVAC works sites such as: SAHARA Project - Administration building, at New Cairo, (VRV) system (from Aug. till Oct. 2013).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Sep. 2016 till now
- Employer** : Bahrawy Consultancy Group (BCG)
- Projects** :
- High voltage substation Projects (Saudi Arabia Projects):
 - AL BAYAA S/S 132/13.8KV Project #8514 (Central Area - DX package System).
 - SKAKA S/S 132/13.8KV Project #8514 (Central Area - DX package System).
 - AL KHANDMAH S/S 132/13.8KV Project (Central Area - DX package System).
 - High voltage substation Projects (Egypt Projects):
 - EL SHOROUK WEST S/S 220/22/22KV Project at El Shorouk City.
 - EXT. OF SOUTH OF TANTA S/S 220/66/11KV Project at Tanta City.
 - NORTH HURGADA S/S 220/22KV Project at Hurgada City.
 - UNITED ACMA S/S 66/11KV Project at Belbis - Sharkia City.
 - DAMIETTA FURNITURE CITY S/S 220/11/11KV Project at Furniture City - Damietta.
 - ABUO SULTAN S/S 66/22KV Project at Mostakbal City.
 - EAST SOHAG S/S 500/220/66/22KV Project at Sohag City.
 - SONKER S/S 66/22KV Project at El Ain El Sokhna City.
 - AL QUSAIR S/S 66/22KV Project at Safaga City.
 - MARASY S/S 220/22KV Project at Mostakbal City.
 - MARASY SWGR. S/S 22KV Project at Marassy City.
 - ZIZENIA S/S 220/66/11KV Project at 10th of Ramadan City –

		<ul style="list-style-type: none"> - Sharkia. - SOKHNA S/S 500/220/22KV Project at El Ain El Sokhna City. - GAMASA S/S 220/66/11KV Project at Gamasa City. • Infrastructure Projects (Egypt Projects): <ul style="list-style-type: none"> - ROCK VERA compound (owner: EL BATAL Group) area 10.37 acre located in 5th district - Scope: Design (Infrastructure sewer network (by sewer CAD Program) & Infrastructure water network (by water CAD Program) & Fire Hydrant network (by ELITE Program) & Irrigation network. • Residential Projects (Egypt Projects): <ul style="list-style-type: none"> - Villa 479 Golf extension (located at 6th of October for owner Mrs. Allia Osman). - ROCK VERA Block of flats (water supply and drainage pipe Risers & riser diagram (core and shell). - ROCK VERA Basements (fire protection (sprinklers + FHC + Pump room) & Ducted ventilation system & floor drainage system). • BIM Projects (Saudi Arabia Projects): <ul style="list-style-type: none"> - Masfalah substation 110KV/13.8KV (modeling by REVIT Program).
Job title	:	HVAC, Fire Fighting & Plumbing Senior Design Engineer
Job Description	:	<p>In addition to the below listed job description points (lay under junior title), some main tasks had been added, these tasks can be listed at the below main points:</p> <ul style="list-style-type: none"> • Below mentioned tasks lay under the junior title. • Work flow time plan & Site visits and technical support. • Firefighting calculation by ELITE Program. • Firefighting (FH) system & power Transformer fire protection (dry system and pressurized tank). • Fire pump room design drawing and shop drawing. • HVAC Design Criteria Report & conceptual design drawings (DX system & Central Ventilation). • Coordination between HVAC & Plumbing & Fire protection systems (water & FM-200 system) & Indoor and Outdoor Electrical equipment layout & Cable ladders/trays & Architectural & Structural drawings (precast & cast in situ) & All underground service such as Cable Ducts & Trenches & Cranes (indoor and outdoor). • Reviewing the technical material submittal & technical offers. • HVAC control schematic diagram between HVAC control panel and all field installed devices. • Sequence of operation (Normal & Emergency) mode. • Design the user's interface for HVAC control panel face (panel door view). • Estimating the mechanical equipment's electrical loads.
Dates	:	From Nov. 2014 till Sep. 2016
Employer	:	Bahrawy Consultancy Group (BCG)
Projects	:	<ul style="list-style-type: none"> • High voltage substation Projects (Saudi Arabia Projects): <ul style="list-style-type: none"> - Extension AL BIDA S/S Project (Western Area - DX Split System). - North Ain Dar Project (Western Area - Dx Split System). - AL KHARG S/S 132/13.8KV Project #8716 (Central Area - DX package System).

- AL KHADRA - ABO SADAD - S/S 132/13.8KV Project (Southern Area - DX package System).
- AL AFIF S/S 132/13.8KV Project #8604 (Central Area - DX package System).
- AL QUAIWIYAH S/S 132/33/13.8KV Project #8514 (Central Area - DX package System).
- AL HAIER S/S 132/13.8KV Project #8063 (Central Area - DX package System).
- AL REMAL S/S 132/13.8KV Project #8340 (Central Area - DX package System).
- AL MAZNAH S/S 33/13.8KV Project (Southern Area - DX package System).
- AL OYNAH S/S 132/13.8KV Project #8312 (Central Area - DX package System).
- AL DAWADMI S/S 132/13.8KV Project #8610 (Central Area - DX package System).
- AL KHALIDIA S/S 132/13.8KV Project #8212 (Central Area - DX package System).
- JEDLAN S/S 33/13.8KV Project (Southern Area - DX package System).
- Another Projects with different applications (Some of below projects with BCG and others as a freelancer):
 - Faculty of Agriculture Theater, Zagazig University (design and shop drawing for four package units, each with capacity 70 TR).
 - BALADIA Building - Administration Building at Al Jouf area, Saudi Arabia (Full design for 5 package units, each 50 TR).
 - RETAGE Hospital Project (shop drawing for duct system).
 - AL HAYAT international special hospital at Zagazig (shop drawing for duct system).
 - EL DEMERDASH Hospital (shop drawing for duct system).
 - HELWAN Hospital (shop drawing for firefighting system).
 - AIN SHAMS FACULTY OF DENTISTRY (shop drawing for duct system Ventilation & air conditioning system).
 - Elhamd Mall Project located at Area (no.34), 5th district (shop drawing fire fighting & Plumbing Systems).
 - LE ROA Mall Project 5th district (shop drawing fire fighting System).

Job title : HVAC & Plumbing Junior Design Engineer

Job Description : The main job description can be listed at below points regarding to HVAC and Plumbing scope:

- HVAC Base design drawings and shop drawings.
- HVAC Load calculations by ELITE & HAP program.
- All calculations related to ventilation & pressurization & smoke purging.
- Duct sizing by ELITE program & ESP calculation.
- BOQ / Equipment schedules & specifications & Air outlets selection.
- Builder work drawings & Coordination / Composite drawing.
- Design Water & drainage piping (inside buildings and at yard) & Septic & soak tanks.
- Transfer & booster and Submersible pumps calculations & sum pit sizing.
- PACU condensation drain piping & pump sizing by DP Program.

Dates : From Oct. 2013 till Oct. 2014
Employer : OMEGA Contracting Co.
Projects :

- North Sector Mosque Project located at Madinty-3 City (central split DX system)
- Elhamd Mall Project located at Area (no.34), 5th district (firefighting & plumbing works)
- Mall 37 Project located at Area (no.37), 5th district (firefighting & plumbing works)

Job title : HVAC, Fire Fighting & Plumbing Site Engineer