

Holds a B. Sc. in Mechanical Power Engineering and has over 6 years hands-on experience in all levels of construction and pre-commissioning for turbine, Rotating and Static Equipment at Power Plants.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 04/03/1990  
Gender : Male  
Marital Status : Married  
Residence : Giza, Cairo

## EDUCATION

: B. Sc. in Mechanical Power Engineering, Cairo University, 2012

## LANGUAGES

Arabic : Native Language  
English : Fluent  
Russian : Basics

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: MS Project  
: AutoCAD 2D  
: Primavera

## TRAINING COURSES AND CERTIFICATIONS

: API 686.  
: Rotating Equipment / Alignment.  
: Steam turbine installation course through authorized engineer from Siemens.  
: Operation Training of MHPS STEAM TURBINE 650MW (South Helwan Power Station).  
: Gas turbine construction / operation by SIEMENS.  
: Combined Cycle (HRGS – Conventional boiler – Gas Turbine) at Training Center North of Cairo for the Ministry of Electricity.  
: Bearing / coupling / pump online course.  
: ASME B31.3 at Inspection Academy.

- : ASME IX, ASME V, ASME II at Inspection Academy.
- : ASME VIII at Inspection Academy.
- : Solar Energy at the National Center for Research.
- : Wind Energy Technology (self study).
- : Training at Cairo West Power Station for 3 months.
- : Self-study of Project Management Professional.
- : AutoCAD 2D – Primavera from Cairo University.
- : H.R. – Communication Skills – Leadership’s Creativity from Cairo University.
- : HSE & Lifting Plan course at IMSs.
- : Piping course.
- : CWI (self study).
- : Plant Engineering and Design Foundation of Oil & Gas projects at InIPED (Plant Design - Layout - Process Engineer - Documents - Safety Precaution - Equipment - Piping - Material & Corrosion).
- : Nuclear Reactor Physics at Moscow Engineering Physics Institute (MEPhI).
- : Heat Exchanger Course, TEMA.
- : Professional Report / Email Writing.
- : Solar energy.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2019 till now
- Employer** : UNICON & MHPS
- Project** : Rehabilitation of Boilers at Cairo West Power Plant
- Job title** : Mechanical Construction Engineer
- Job Description** :
- Responsible of supervision on sub-contract to achievement our schedule.
  - Arrangement and handling between Owner / Manufacture and us for sequence of activities depend on material and time of Boilers shutdown.
  - Install Skid (Air Cooler Fans – Lube oil Cooling system) Change bearing of Force Draft Fans.
  - Installation piping system / Supports, inspection and testing for system.
  - Replacement water wall, Header, insulation and Coils.
  - Activities planning by PRIMAVER, Daily meeting, daily & weekly reports.
  - Handover system to OWNER.

- Dates** : From 2018 till 2019
- Employer** : DOOSAN, DHI
- Project** : CAIRO WEST POWER PLANT 650MW
- Job title** : Mechanical Equipment Engineer
- Job Description** :
- Install Rotating & Static Equipment (Steam Turbine - Condenser - Pump - Tank - Heat Exchanger - Overhead Crane - Fan) Alignment of Steam Turbine / Generator shaft.
  - Foundation, Grout, Lifting, Assembling, Alignment for Equipment. sole plate, packer plates, grout pads, Anchor Block, front & MID STD, Turning Gear sole plates, do Contact Check for T/G.
  - Install Bearing and take its clearance.

- Lifting and installation Install LP lower outer casing, HP-T & Generator & LP Rotors and lower inner casing.
- Assembling Steam Condenser / Temporary Rail for installation. Install Main Expansion joints & Extended Neck Ducts and Tanks Filling Test of Condenser / Test of HEX / Test of Heaters.
- Install Rails of Overhead Crane, Assembly of Main Girder, End carriage, platform and Lifting plan, then Load Test of OHC Inspection & Handover & Survey of Foundation Area from other contract.
- Inspection all check list and handover to owner.
- Handover terminal point.

**Dates** : From Mar. 2017 till 2018

**Employer** : PGESCo.

**Project** : South Helwan Supercritical Power Plant 3x650MW

**Job title** : Mechanical Construction Engineer (Rotating & Static Equipment)

**Job Description** :

- Installation steam turbine, generator, Condenser, Pump, Fans, HEX, Heaters.
- Follow up installation Feed Water Pump Start-up pump & Condensate Pump and mazut & solar system.
- Assembling & Inspection of Auxiliary Boiler.
- Preparation Foundation - Packer Plate - Base plate of Turbine.
- Install & Alignment of Pedestals & lower Bearing.
- Install Lower Outer & Inner Casing of Turbine and Upper.
- Inspection of clearance between Rotor and Stator.
- Insert Generator Shaft / install Exciter Plate.
- Alignment, Run out and Inspection Clearance of Turbine, Generator, Pump, Fans Coupling.
- Hydraulic Tightening Procedure.
- Preparation Turbine & Bearing for Oil Flushing procedure and inspection of it depend on acceptance criteria.
- Inspection of lifting system of Turbine Rotor.
- Installation HP & LP Heaters.
- Installation Static Equipment (Tank and HEX).
- Assembling Steam boiler, water wall, Header, Ducts, Coils & Burner.
- Main test for boiler, Leak test of Ducts.
- Install & Assembling Air-Preheater / Forced Draft Fans / Burner Assembling & Filling Test of Condenser & Heaters and HEX.
- Follow up Non-Critical & Critical Piping installation, Supports, Hydro-Static Test, insulation and coating then do punch list.
- Install Temporary Kit of Valves for Hydro-static Test and steam blow.
- Then inspection of Valve closing clearance.
- Preparation all Equipment for operation & pre-commissioning.
- Well dealing with RFI, NCR & S.N.

**Dates** : From Jul. 2016 till Feb. 2017

**Employer** : MEGA

**Project** : SOUTH HELWAN SUPERCRITICAL POWER PLANT 3x650MW

**Job title** : Mechanical Construction Engineer

**Job Description** : 

- Assembling Main steel, Secondary steel, Heavy Girders, Hunger rods and preparation of lifting plan.
- Pressure parts (headers, water wall, Arch, Roof).
- Lifting of Steam Headers, Water wall, Roof.
- Assembling coils with headers.
- Installation Non-Critical Piping.
- Arrangement Activities.
- Preparation Lifting Plan.

**Dates** : From Dec. 2014 till Jun. 2016  
**Employer** : UNICON Company for maintenance power station projects  
**Project** : Rehabilitation of Cairo West Power Plant Boilers  
**Job title** : Mechanical Construction Engineer  
**Job Description** : 

- Install and maintenance of boiler.
- Install piping system / supports.
- Replacement of Headers & Coils & Water wall.
- Insulation / cladding.
- Planning for activities by PRIMAVERA.
- Handling between Owner / Manufacture for schedule.
- Daily meeting / Reports.

**Dates** : From Jan. 2014 till Dec. 2014  
**Employer** : Engineering Company Electrical and Mechanical Power  
**Projects** : 

- Production line (Motors – Belting)
- Water lines - double jacket pipe
- Tanks

**Job title** : Construction Engineer

**Field of experience** : 

- Construction - Rehabilitation - Consultant.
- (Power Plant - BOP) projects.
- Assembling Boiler, Turbine, Pump, Heater, HEX, Condenser, Cranes, Ducts and Insulation.
- Visual, Hydro-static, Pneumatic Test Piping and Boiler Filling Test for Condenser & Heater and HEX Alignment for Rotating Equipment.
- Installation Critical & Non-Critical Piping.
- Pre-Commissioning for system, Flushing, Steam Blow.
- Documentation Cycle RFI, NCR & S.N.
- Skills:
  - Planning for activities by PRIMAVERA.
  - Professional Report / Email writing.
  - Cost Estimation for contract and tendering.
  - Well dealing with documentation reports, RF I, NCR, S.N.