

Holds a B. Sc. in Mechanical Engineering and has about 18 years hands-on experience working in construction, operation, maintenance, commissioning and start-up at several Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 21/03/1980
Gender : Male
Marital Status : Married
Residence : Currently Indonesia

EDUCATION

: B. Sc. in Mechanical Engineering, Cairo University, 2004

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: AutoCAD (2D & 3D)
: Solid Work (3D Modeling, Assembly)

TRAINING COURSES AND CERTIFICATIONS

: Steam Power Plant Basics and site specifics training courses, Constituting a program of concentrated study of power plant equipments & systems, theory and application, Shoubra El-Kheima Power Station Training Center (4 months).
: At Cairo West Power Station Training Center:

- 220 & 66KV GIS Substation Operation and Protection.
- Unit (Generator, Boiler and Turbine) Protection.
- Hydrogen and Oxygen Production System.
- Turbine and Boiler Control Circuits.
- Boiler Feed Water Treatment.
- Station UPS System.
- First Aids Training.

: ASME B 31.1 Power Piping (Design, Fabrication, Welding, NDT) course from American University in Cairo (AUC).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Oct. 2021 till now
- Employer** : TRACTEBEL Engie
- Project** : Tambak Lorok, CCPP Block #3 Project (600-850MW) single shaft train (INDONESIA)
- Job title** : GTG/STG - Project Engineer (owner engineering - consultant) – Gen. (W88 -50 WT – 25E-138), GT (9HA -02) and STG (STF-D652) with SSS clutch
- Job Description** :
- Installation of GE biggest Gas turbine Combined Cycle Power Plant with consists: GE gas turbine 1x9HA.02 ss with HRSG and D-652 STF 3 casing steam turbine + BOP plant, GT electric generator 290T307 (W88 50WT25e-138) Hydrogen cooled generator.
 - As Mechanical consultant team support the construction site manager for the mechanical erection provision through-out Preparation, installation, and pre-commissioning stages activities. Also provided technical assistance to the technical lead and contractors with regards to progress compliance with the contract and applicable codes / standards, quality, safety, and environmental acceptance, fire fighting scope.
 - Review procurement documentation ensuring contractors obligation to the projects delivery, contractor's mechanical erection /installation work method statement (ITP) inspection test plan schedule, and risk assessments. Also assisted in verifying contractors work progress.
 - Record for the part variations of both owner and contractors are also reviewed, along with mechanical parts of the preliminary (prior to pre-commissioning and commissioning) O&M manuals submitted by the contractor. Final documentation reviews stages also include erection hand-over Packages as prepared by the contractors.
 - Maintain the master schedule for overall project implementation incorporating contractors' individual schedules.
 - Assist to quality management system and procedures to monitor and to control the time schedule. And risk management system.
 - Conduct coordination, supervision and inspection of all construction and erection activities.
 - Provide necessary interpretation to the owner's project manager on technical and commercial issue.
 - Follow up and monitoring the modification work for GT (combustion unibodies).
 - Follow up and monitoring the modification works for ST BG0 (dismantle the HP & IP turbine and apply welding shims for the felling material in both turbine rotor).
- Dates** : From Nov. 2018 till Sep. 2021
- Employer** : Doosan
- Project** : Assiut Power Plant (1x650MW supercritical gas & oil fired unit)
- Job title** : Mechanical Project Manager (Package 106) - STG MODEL-DST-S20/ HIP combined + 4FLP
- Job Description** :
- Construction, commissioning and maintenance.
 - I was authorized representative for following all construction activities Turbines measurements, piping installing, fire fighting scope, welding activities, hydro tests, insulation work, turbine clearance Records,

performance test, punch list creation and review all submittals for approval.

- Follow up all site mechanical construction activities.
- Monitor and attend all Types of NDT's.
- Attend the consultant progress meetings and make sure that site activities are in line with project schedule.
- Coordinate all mechanical activities (Mechanical Equipment and piping installation) with other contractor Interfaces i.e. Civil, Electrical.
- Perform receipt inspection of Contractor(s)' material deliveries and sign off on Material Receiving Reports (MRR).
- Review and approve contractors' progress invoices.
- Responsible for daily monitoring of Subcontractors onsite activities to ensure the Work is Performed in accordance with Contract requirements.
- Develop punch lists of incomplete work.
- Verify Contractor(s) equipment installed quantities and quality as per contract Specification and approved procedures.
- Develop scope definition and technical data for field issued contract change notices.
- Co-operate with all other department to verify project success with its target schedule.
- Be a role model for DHI "Zero Incident" safety philosophy for all projects employees.
- Establish and follow up the implementation of the procedure for minimum documentation Required from contractors for testing and turnover package.

Dates	:	From Jul. 2018 till Oct. 2018
Employer	:	TECHINT Engineering & Construction Company
Project	:	South Helwan Supercritical Power Plant (650MWx3, oil & gas firing)
Job title	:	Mechanical Construction & Commissioning Team Leader (CP-118)
Job Description	:	<ul style="list-style-type: none">• I was authorized representative for following all construction, pre-commissioning & commissioning activities Turbines Feed water pumps X 6 turbo set measurements, piping installing, welding activities, hydro testes, insulation work, turbine clearance Records for Turbine and pumps with AUX.• Follow up all site mechanical construction activities.• Progress meetings and make sure that site activities are in line with project schedule.• Coordinate all mechanical activities (Mechanical Equipment and piping installation) with other departments.• Oil flushing and steam blow for oil and steam lines.
Dates	:	From Sep. 2016 till Jun. 2018
Employer	:	PGESCO
Project	:	New Administrative Capital Power Plant, Egypt (4800MW - Mega Project - Combined Cycle Power Plant)
Job title	:	Mechanical Manager (construction and commissioning (consultant))
Job Description	:	<ul style="list-style-type: none">• Responsible for daily monitoring of Contractor's onsite activities to ensure the work is performed in accordance with project requirements.

- Develop scope definition and technical data for field issued contract change notices.
- Co-operate with all other department to verify project success with its target schedule.
- Supervise, coordinate and review the work of assigned engineers, estimates staffing needs, schedules, and assigns work to meet completion dates.

Dates : From Mar. 2015 till Aug. 2016

Employer : PGESCO

Project : Suez Thermal Power Plant, Egypt (1x650MW, gas & oil fired unit)

Job title : Turbine Mechanical Construction Manager (Consultant) - ALSTOM/GE-STG MODEL 2XLT37BU/B

Job Description :

- I was authorized representative for following all construction activities Turbines measurements, piping installing, welding activities, hydro testes, insulation work, turbine clearance Records, performance test, punch list creation and review all submittals for approval.
- Follow up all site mechanical construction activities.
- Monitor and attend all Types of NDT's.
- Attend the consultant progress meetings and make sure that site activities are in line with project schedule.
- Coordinate all mechanical activities (Mechanical Equipment and piping installation) with other contractor interfaces i.e. Civil, Electrical.
- Review and approve contractors' progress invoices.
- Perform receipt inspection of Contractor(s)' material deliveries and sign off on Material Receiving Reports (MRR).
- Responsible for daily monitoring of Contractor's onsite activities to ensure the work is performed in accordance with Contract requirements.
- Develop punch lists of incomplete work.
- Verify Contractor(s) equipment installed quantities and quality as per contract Specification and approved procedures.
- Develop scope definition and technical data for field issued contract change notices.
- Co-operate with all other department to verify project success with its target schedule.
- Be a role model for PGESCO's "Zero Incident" safety philosophy for all projects employees.
- Establish and follow up the implementation of the procedure for minimum documentation required from contractors for testing and turnover package.

Dates : From Mar. 2013 till Feb. 2015

Employer : Power Generation Engineering and Services Company (PGESCO)

Project : El Ain El Sokhna Supercritical Thermal Power Plant units 1 & 2 (2x650), gas & oil fired units

Job title : Project Engineer (start-up and commissioning (consultant)) - DOOSAN-BOILER & TECHINT-BOP & HITACHI-STG Model TC4F – 33.5

Job Description :

- Responsible for daily monitoring of Contractor's onsite activities to ensure the work is performed in accordance with Contract requirements.

- Develop punch lists of incomplete work.
- Verify Contractor(s) equipment installed quantities and quality as per contract Specification and approved procedures.
- Develop scope definition and technical data for field issued contract change notices.
- Co-operate with all other department to verify project success with its target schedule.
- Perform receipt inspection of Contractor(s)' material deliveries and sign off on Material Receiving Reports (MRR).
- Be a role model for PGESCO's (Zero Incident) safety philosophy for all projects employees.
- Establish and follow up the implementation of the procedure for minimum documentation required from contractors for testing and turnover package.
- Collect the completed Quality Checklist, develops metrics and shares the data with the engineering and Procurement functional departments.
- Develop scope definition and technical data for field issued contract change notices.
- Provide input to the project critical action item list as required.
- Supervise, coordinate and review the work of assigned engineers, estimates staffing needs and schedules, and assigns work to meet completion dates.

Dates : From Oct. 2011 till Feb. 2013
Employer : Mitsubishi Heavy Industries
Project : Abu Qir Thermal Power Plant (2x650MW), CP-106
Job title : Turbine Mechanical Commissioning Engineer
Job Description :

- FLUSHING OIL LINES (turbines lube oil - EH oil).
- MOTOR HEAT RUN.
- Commission all turbines and aux. systems regarding to the Demand and Feedback.
- Steam Blow Preparations & Reassessment Works Supervision.
- Turbines start-up from DCS and following up the Behavior Conditions.
- All Turbines and aux. systems Supervision and Handover to Client.

Dates : From Jul. 2011 till Sep. 2011
Employer : Kharafi National
Project : El-Shabab Simple Cycle Power Plant, Egypt (8x125MW)
Job title : Mechanical Construction & Commissioning Team Leader
Job Description :

- My experience in GE gas turbines is with the installation of the frame 9EA, 125MW gas turbine.
- I was involved heavily with the installation of 8 gas turbine and generators at the El- Shabab project in Egypt.
- This project gained worldwide recognition because we installed these gas turbines and put them on the electrical grid in less than few months.
- Installing the:
 - Turbine skid.
 - Auxiliary skid.
 - Generator skid.
 - Fin fan cooler and cooling pumps.

- Inlet and exhaust plenum.
- Air filter system (evap cooler - expansion joint - filter module - Filter Element - media).
- Exhaust system and stack.
- Turbine and auxiliary acoustic enclosure.
- Generator acoustic enclosure.
- Ventilation system (Turbine, Generator and Auxiliary).
- Turbine auxiliary skids (Water wash skid, water injection, Gas module, GLAC & GNAC, SSOV, Gas fuel skid, CEMS skid, APU skid, Distillate skid, CO2 container and exhaust frame blowers).
- Carry out the alignment between GEN and Turbine.
- Follow up start-up activities as the assistant with GE site manager according to his request to troubleshoot the turbine during start-up.

Dates : From Jan. 2011 till Jun. 2011
Employer : BABCOCK-HITACHI
Project : Cairo West Project (2x350MW), CP-105
Job title : Mechanical Commissioning & Start-up Engineer
Job Description :

- Commission all air, fuel and gas dampers.
- Commission all air and gas fans.
- Commission all fans and dampers regarding to the demand and feedback.
- Steam blow preparations & re-assessment works supervision.
- Light off the boiler from DCS and following up the firing behavior conditions.
- HVAC systems supervision and handover to client.

Dates : From Jan. 2010 till Dec. 2010
Employer : Cairo Electricity Production Co. (CEPC)
Project : Cairo West Thermal Power Plant, Egypt (2x350MW gas & oil fired units)
Job Description :

- Steam Turbine MODEL STG TC2F28 & Gas Turbines Construction Engineer:
 - I was the owner authorized representative for following all construction activities concerning (2) Steam Turbine from release the shipments from the local contractor's facilities to site, Turbines measurements, piping installing, welding activities, hydro tests, insulation work, turbine clearance Records, performance test, punch list creation and review all submittals for approval.
 - Supervising for Installation and performed all tests, measurements, and inspection required by the owner (CEPC) as a witness engineer for the following items:
 - ❖ Steam Turbine installation steps and measurements.
 - ❖ Lubrication & Control Oil Systems.
 - ❖ Condenser, its auxiliary's equipment.
 - ❖ Service and instrument air compressor.
 - ❖ The relative major pumps like the circulation and service.
 - Follow up all site mechanical construction activities.
 - Monitor and attend all Types of NDT's.
 - Attend the consultant progress meetings and make sure that site activities are in line with project schedule.

- Coordinate all mechanical activities (Mechanical Equipment and piping installation) with other contractor interfaces i.e. Civil, Electrical.
- Review and approve MRR's (Material Receiving Reports).
- Review and approve contractors' progress invoices.
- MECHANICAL MAINTENANCE ENGINEER (major overhaul) for Siemens steam turbine (330MW) TD - 65:
 - Carrying out pre-commissioning and commissioning activities of equipment's and systems such as CEPs, MDBFP, TDBFPs, Turbine Lube Oil & Jacking oil system, Generator Seal Oil system, DEH, HP/LP Bypass, Condensate system, Cooling Water system, CPU etc.
 - Flushing of DEH and HP/IP/LP bypass skid along with valve stroking.
 - Turbine rolling and unit synchronization.
 - Carry out flushing and acid cleaning of TG lube oil, jacking oil and seal oil systems.
 - Commissioning of BFPs, CEPs, vacuum pumps, CCCW pumps, etc.
 - Commissioning of Electro hydraulic oil system which included flushing of DEH lines, installation of servo valves and stroking of Steam Stop Valves and Control Valves.
 - Carry out critical commissioning activities in TG area such as Steam Blowing, Alkali flushing, Condenser flood test, Generator ATT, Generator Hydrogen filling, etc.
 - Turbine rolling and synchronization activities.
- MECHANICAL MAINTENANCE ENGINEER of VARIABLE SPEED HYDRAULIC COUPLING (VOITH) MODEL -M-15:
 - Major overhaul for hydraulic coupling (changing main pump – thrust bearing – check gears backlash).
 - Flushing all OIL LINES.
 - Working oil & lube oil starting.
 - Scope tube adjustment.

Dates : From 2007 till 2009

Employer : Cairo Electricity Production Co.

Project : Cairo West Power Station

Job title : Mechanical Maintenance Engineer

Job Description :

- SIEMENS - Steam Turbine major overhaul (2008).
- Maintenance of "Lube oil pumps" & "Lifting pumps" & "Exhaust Fans".
- Maintenance of "CCW pumps" & "CW pumps" & "Service water pumps".
- Maintenance of Filter water & Demi-water pumps.
- Maintenance of "Feed water pumps" & "Main condensate pumps".
- Maintenance of "Variable Speed Hydraulic Coupling – VOITH".
- Maintenance of "Air Compressors" & "Hydrogen compressors".
- Maintenance of "Valves" (Gate, Globe, Butterfly, Non-return valves).
- Quality Control Engineering: Non Destructive Test (Die penetrate Test, Magnetic Test, Ultrasonic test); Vibration measurement & Analysis, Balancing Process.

Dates : From 2005 till 2007
Employer : Cairo Electricity Production Co. (CEPC)
Projects : Cairo West Power Plant & Shoubra El-Kheima Power Plant
Job title : Shift Operation Engineer
Job Description :

- Cairo West Power Plant:
 - 2x330MW, Natural circulation, natural gas / H.F.O. fired B&H "Marubeni" design boiler natural drum type controlled circulation. Including boiler draft equipment (2 FD & 2 GR) fans, air heaters, HP/LP bypassed system, 3 Stages Siemens Turbine, Siemens H cooled generator, soft water cooled condenser, 7 Stages regenerator feed water heaters, main circulating water system, closed cooling water system, water supply system, waste water system, sampling system, dosing system. Compressed air system, control system (ABB control system), emergency and black start diesel generators, and hydrogen production system.
- Shoubra El-Kheima Power Plant:
 - 4 units "WESTING HOUSE" Steam Turbine & Generator (MCR: 315MW).
 - 4 units "ANSALDO CALDAIE" Steam Boilers (MCR: 1000 t/hr),
 - (Main Steam Pressure 170 bar).
 - PLC Control System.
 - 2 Operation Modes: Constant pressure and Sliding Modes.
 - Natural Gas & Fuel Oil Firing Systems.
 - Emergency Gas Turbine (45MW).

Dates : From Jun. 2004 till Jan. 2005
Employer : GIZA Company for cables
Job title : Mechanical Engineer
Job Description :

- Worked on "Continuous Catenary Vulcanization Line".
- Isolation of cables by cross-linked polyethylene (medium & high voltage).

Field of experience :

- Management Professional with over 18 years of technically disciplined roles across a broad range of green and brownfield environments. I bring solid experience from construction & commissioning and maintenance various construction, testing & pre-commissioning & commissioning and all maintenance, modification, troubleshooting works with all safety fulfilled precaution with codes and standard in oil & gas firing power plant for many mega project and water treatment, waste plant and drilling wells for feeding or reject which including put not limited (steam turbine, gas turbine, sewage, GIS, Substation, firefighting, offshore intake installation, hydrogen plant, HVAC, sodium hypochlorite plant, natural gas compressor, air compressor, OHC, heavy lifting, Emergency diesel, Waste water). Proven track record Senior Operational and Project management roles. Background in maintenance, modification works. Strong operational management and commercial acumen. Specialties: Business / Portfolio & Project Management and Strategic Planning, Project controls. Demonstrable experience in project and portfolio management. Strong finance understanding with safety and results focus.

- Skills and competencies:
 - Skills in managing Strategic and Front-end Processes.
 - Project Execution.
 - Resource & Schedule Management.
 - Cost Management.
 - Project Control Processes.
 - Project Context.
 - Contracting and Procurement.