

Holds a B. Sc. in Mechanical Power Engineering and has about 16 years experience in Engineering & Project Management of 30+ FEED/EPC Mega projects in Middle East Region hired for multinational leading firms in different Engineering sectors of Energy / Power Stations / Process / Oil & Gas / Buildings. Experienced in dealing with the relevant international standards, national codes and specifications.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 28/08/1984
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2006

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD
: Revit
: Smart Plant 3D modeling
: PIPENET, HAP, Elite, Smart plant PID

TRAINING COURSES AND CERTIFICATIONS

: Energy Plant Cycle Chemistry Training (Feb. 2016).
: LEED Green Associate Certificate (GBCI) (Mar. 2012).
: Designing Steam Systems - Spirax Sarco - UAE Training Center (Nov. 2011).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2013 till now
Employer : Bechtel / PGESCO.

- Projects** :
- New Delta Agricultural Waste Treatment Plant (7,500,000 m3/day)
 - National Company for Maize Products (NCMP), Combined Heat and Power Station (CHP)
 - Daura Refinery Plant, Baghdad - Iraq
 - South Helwan Supercritical Thermal Power Plant (3x660MW)
 - Misratah Energy Plant, Simple Cycle (650MW, 2 x SGT5-PAC 4000F), Libya
 - Tripoli West Energy Plant, Simple Cycle (671MW, 4 x SGT5-PAC 2000E), Libya
 - Benghazi West Energy Plant, Combined Cycle (1980MW), two modules (2x2x1), Libya
 - Bu Traba Energy Plant, Combined Cycle (600MW), Libya, one module (2x2x1), Libya
 - Al-Shabab Energy Plant, Converting Simple Cycle to Combined Cycle (1500MW)
 - West Damietta Energy Plant, Converting Simple Cycle to Combined Cycle (750MW)
 - El Ain El Sokhna Supercritical Thermal Power Plant (2x650MW)
 - El-Tebbin Thermal Energy Plant, 2x350MW, Unit No. (1) Rehabilitation Project
 - 6 October II Simple Cycle Energy Plant (4x160MW)
 - Mostakbal Masr
 - Sherbine waste water plant
 - Dabaa Nuclear Power Plant, Power Output Station (POS), 4 units (4800MW)
- Job titles** :
- Lead Mechanical Engineer
 - Senior Mechanical Engineer
 - Package Engineer
- Job Description** :
- Front End Engineering & Design (FEED) & (EPC & EPCM) for multi discipline projects in the Power Plants, Process Plants, water treatment plants and Petrochemical projects.
 - Package Engineer for water treatment skids including waste water treatment plants, sewage treatment plants, oily waste separators, condensate polishers, chemical dosing skids, Demineralized water skids and desalination plants.
 - Package Engineer for rotating equipment includes gas turbines, steam turbines, pumps, fans and compressors.
 - Solid experience in HVAC, fire protection & plumbing systems in all industrial/residential applications.
 - Planned, managed and coordinated engineering activities on large and/or technically complex portion of a project and/or serve in an individual contributor role completing defined technically complex engineering assignments.
 - Prepared proposals, design drawings, contract information (CI) sheets, specifications, Material Requisitions and other engineering documents for package & EPC projects.
 - Prepared calculations & PIDs of water treatment systems.
 - Performed as process engineer in power station projects.
 - Engineered balance of plant (BOP) mechanical systems/equipment.
 - Prepared technical bid documents & perform bid analysis/evaluation reports for suppliers' proposals.

- Managed pre-award negotiation, kick-off meetings with awarded Suppliers setting final technical conditions.
- Prepared equipment, valves, piping, specialty lists pricing schedules
- Managed all technical issues of supplier package with package management with other engineering disciplines.
- Prepared all official correspondences such emails, letters and conference calls with suppliers/Owners.
- Provided information estimating the cost of contract changes (CDDRs).
- Alerted the Project Engineer / Manager to circumstances considered subject to contract change.
- Followed up contractor progress on weekly basis and the scheduled Engineering meetings.
- Reviewed all third-party mechanical engineering deliverables.
- Performed inspection and witnessed performance testing where required. Managed interfaces between supplier and other involved sub-suppliers.
- Performed site activities of material receiving, handover, inspection, tests & commissioning for rotating equipment & different packages in addition to systems walk-downs.
- Supervised/Managed subordinate junior engineers, designers within the project schedule/milestones.
- Good knowledge on interfaces, control logic and control systems.

Dates	:	From Dec. 2006 till Feb. 2013
Employer	:	Dar Al-Handasah, Cairo
Projects	:	<ul style="list-style-type: none"> • King Abdullah University, Specialized Hospital for Children, Riyadh - KSA • NGHA, FIVE HOSPITALS, KSA • King Abdullah University, Cardiovascular Hospital, Jeddah - KSA • King Abdel Aziz Endowment (Abraj Elbait), Makah - KSA (Design Engineer) • Pearl Qatar - TCOM package • Princess Nora University, KSA • Metro stations, Riyadh Women University, KSA
Job title	:	Mechanical Design Engineer for Rotating Equipment & HVAC systems
Job Description	:	<ul style="list-style-type: none"> • Charged as Rotating and Static Equipment Engineer for equipment associated to mechanical systems of mega projects of High Rising Buildings, Health Care, horizontal residential, Hotels, Educational facilities, transportation, commercial, and steam production plants. • Rotating Equipment Engineer for all rotating equipment packages includes (Pumps, compressors, chillers, Air handling units, fans, fan coil units, steam generators) in addition to different static equipment such as (heat exchangers, expansion tanks, heaters, boilers). • Implemented full design of HVAC systems starting from Conceptual Design through the construction phase. • Developed Mechanical / Utility equipment and construction specifications for rotating equipment. • Performed HVAC load calculations using energy modeling software to size all rotating equipment. • Experience in designing mechanical systems of High-Rise Building projects not limited to chilled water networks, airside circuits and smoke management systems.

- Performed proper design for steam boiler energy plants producing steam utilized in HVAC humidification, sterilization, medical use and domestic heating processes.
- Experienced in dealing with chilled water Hydronic networks includes different rotating equipment.
- Well versed in preparing the calculations of heat load, pump head, expansion tank, fan static, staircase pressurization, air balance, medical gases, kitchens balance, steam demand and smoke management calculations.
- Prepared equipment data sheets and equipment selection using suppliers' cutsheets and software.
- Coordinating with other building/project design disciplines and work in a team environment.
- Prepared complete bill of quantities for the project's mechanical equipment & items.
- In depth knowledge of relevant Mechanical standards not limited to ASHREA, ASPE, NFPA, SMACNA.
- Directed activities of Mechanical CAD and Designers as well as use CAD / Revit.
- Reviewed contractor/sup suppliers cutsheets and calculations.
- Performed the mechanical site inspections and monitoring site progress.
- Capability of designing both the traditional type projects and LEED Certified Projects.