

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 9 years hands-on experience working as Lead HV Design Engineer / Project Control Engineer / Electrical Project Engineer.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 05/02/1984
Gender : Male
Marital Status : Married
Residence : New Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Helwan University, 2007

LANGUAGES

Arabic : Native Language
English : Fluent
Italian : Fair

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet

TRAINING COURSES AND CERTIFICATIONS

- : On-job training at BECHTEL in Frederick office in The United States of America (from Sep. till Dec. 2009): Bechtel University Courses in the Processes, methods & procedures that Bechtel uses for Power Plant Design.
- : Project Management Professional (PMP) preparation course in the American University of Cairo, to be certified shortly.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Aug. 2016 till now
Employer : GE Energy Connections
Job title : Lead HV Design Engineer
Job Description : Electrical Engineering and Management Related Duties & Responsibilities:

- Accountable for task list definition & for provisional drawings list issue with submission dates.
- Document & configuration management.

- Time delivery mastering (e.g. Anticipate and mitigate delivery issues, Give necessary input for management /monitoring detailed execution progress and short term plan, ...).
- Design expediting.
- Manage and organize Sourcing & Procurement, Supplier/Partner management.
- Fully manage and control all Interface with site.
- Define all milestones in relevant activities in line with general time schedule.
- Review of general time schedule and assignment of resources to start engineering.
- Participate to elaboration of design strategy when required.
- Support team to manage scope or design changes (data for claims, VO..).
- Updates risk assessment related to design & applies mitigation plan when required.
- Check that traceability from Customer requirements to equipment specifications is done.
- Consult on basic design phase.
- Support to ensure technical consistency of design area and associated performance level.
- Accountable for the compliance to the 'state of the art' and applicable standard and regulation in each field of activity.
- Accountable on completeness of subcontracting files (Scope, Deliverables, Inputs, Schedule) in each field of activity.
- Detect any malfunctioning during different engineering phases and implement corrective actions.
- Ensure planning and realization on time of design reviews.
- Involved in subcontracting strategy for each field of activity & support sourcing for design subcontractor audits.
- Follow Subcontractor competences and workloads on regular basis.
- Verify the quality of services provided on projects and competitiveness of offers received from design subcontractors.
- Return of Experience & Knowledge Capitalization.

Dates	:	From Apr. 2008 till Aug. 2016
Employer	:	Power Generation Engineering and Services Company (PGESCO)
Job titles	:	<ul style="list-style-type: none"> • Project Controls Engineer (from May 2015 till Aug. 2016) • Electrical Project Engineer (from Apr. 2008 till May 2015)
Job Description	:	<ul style="list-style-type: none"> • Power Generation Plants Projects: <ul style="list-style-type: none"> - Abu Qir Thermal Power Plant – Units 6 & 7 – 2x650MW Gas/Oil fired units (Client: Egyptian Electricity Holding Company (EEHC) / West Delta Electricity Production Company (WDEPC). - El-Suez Thermal Power Plant – 1x650MW (Client: Egyptian Electricity Holding Company (EEHC) / East Egypt Delta Electricity Production Company (EDEPC)). - Al-Shabab and West Damietta Conversion Power Plants – 1000MW & 500MW (Client: Egyptian Electricity Holding Company (EEHC) / East Egypt Delta Electricity Production Company (EDEPC)). • Electrical High Voltage Switchyard Projects:

- ABU QIR 500KV Gas insulated switchgear GIS Switchyard (Double bus double breaker scheme).
- El-Suez 500KV Gas insulated switchgear GIS Switchyard (Double bus double breaker scheme).
- Al-Shabab and West Damietta Phase II 220KV Gas insulated switchgear GIS Switchyard (breaker and half scheme).
- French Fund Project 3 x 500/220KV GIS Substations.
- Project Controls Related Duties & Responsibilities:
 - Development and updating of Project Engineering & Procurement Schedule.
 - Participate in Develop Construction & Start-up Schedules for all disciplines.
 - Participate in review, analyzed & evaluated bid documents for contract packages & purchase orders.
 - Participate in Bids scope adjustments & cost evaluation.
 - Participate in Contract Packages/Purchase Orders pre-award negotiations.
 - Prepare project Weekly progress report to PGESCO management to explain project progress and performance during the reporting period.
 - Prepare project Monthly progress report to client to explain project progress and performance during the reporting period.
 - Report critical issues to Project Manager.
 - Perform Contractors' Schedule and progress report review, approval, monitoring including identifying critical activities to ensure support milestones for total project or major portions of the project.
 - Interact on a daily basis with all Contractors and PGESCO departments in particular Procurement, Construction and Contract to ensure understanding of total project schedule needs.
 - Assist in preparing project Weekly progress report to PGESCO management to explain project progress and performance during the reporting period.
 - Assist in preparing project Monthly progress report to client and PGESCO management to explain project progress and performance during the reporting period.
 - Evaluating time/cost claims & changes among the projects.
- Electrical Engineering Related Duties & Responsibilities:
 - Consultancy services between the Client and the Contractors/Suppliers.
 - Coordination between different Contractors for the same project.
 - Responsible for handling and coordination the physical issues with the other disciplines and in the entire group.
 - Responsible for reviewing of power plant contact packages submittals related to the physical issues and verification of compliance with physical design requirements.
 - Responsible for contracts preparation (including preliminary design report "scope book", technical specifications, drawings and pricing schedules) and technical evaluation.
 - Performing and managing the work in accordance with relevant Engineering Department Procedures (EDPs) and international design guides and standards.
 - Resolving field initiated clarifications on engineering.

- Communicate complex technical issues to achieve reliable and cost effective designs and recommends solutions to client, project and functional management as directed and as appropriate.
- Support other projects on temporary basis to achieve schedule milestones.
- Responsible Engineer for the electrical scope in the following contract packages:
 - 500KV Gas insulated switchgear GIS Switchyard.
 - Steam Turbine Generator & Condenser.
 - Steam Generator (Boiler) & Auxiliaries.
 - Distribution control system (DCS).
 - Low voltage works in the civil package.
 - Water - Waste Water Treatment & Desalination Plant Packages.
- Performed the following calculations and drawings:
 - 220V DC & UPS Systems Sizing Calculation.
 - Sizing of M.V & Large L.V cables in U/G DuctBank Run cables calculation.
 - Grounding Grid Calculation.
 - Diesel generator sizing calculation.
 - Power Station Electrical Auxiliary System Main Single Line Diagram.
 - Cable Connection Drawings for Various Plant Systems.
 - Cables Routing and Termination.
 - Electrical Equipment location (Design - 3D Model - 2D Drawings).
 - Electrical underground Duct bank (Design - 3D Modeling - 2D Drawings).
 - Above ground Cable Trays (Design - 3D Modeling - 2D Drawings).
 - Isolating Phase Bus from the turbine generator up to the generator step up transformer connecting the high voltage network (Design - Arrangement - 3D Model).
 - High, Medium And Low Voltage Phasing Diagrams.
 - Hazardous Area Classification Drawings.
 - Lighting and grounding design drawings.
- Engineering Department Contributions:
 - Performed Factory Acceptance Test (FAT) for Station Service Transformer for Suez thermal power plant in Hyundai Heavy Industries (HHI) Facilities, Ulsan, Republic of South Korea.
 - Performed Factory Acceptance Test (FAT) for the isolating phase bus for Suez thermal power plant in Alstom Egypt.
 - Participate in the training program by preparing a technical training for the Gas Turbine to the colleagues after attending the gas turbine course for a week in the Egyptian Engineering Association.
 - Participate in Preparation of the work process diagrams for the whole discipline activities.

Dates : From Oct. 2007 till Apr. 2008
Employer : ZELOG EGYPT L.T.D
Project : General Motors Egypt
Job title : Site Manager

- Job Description** :
- Installing raceway paths.
 - Loads calculations.
 - Cables laying.
 - Termination of the electrical panels.
 - Commissioning.
 - Coordination with owner, main contractor and material suppliers.
 - Labors tending.

Key Skills:

- Understanding of engineering planning and control methods.
- Broad knowledge of the application of engineering to plant constructability as applied to construction methods and materials.
- Thorough knowledge of discipline engineering techniques, the design of engineered systems, design calculations and design drawings for power Generation Plants Projects and Electrical High Voltage Switchyard and substations Projects.

System used:

- Professional user of Electrical Transient Analyzer Program (ETAP) ductbank calculation, load flow, short circuit calculation.
- Professional user of current distribution electromagnetic fields grounding and soil structure analysis (CDEGS) grounding grid calculation.
- Professional user of the following ECAD software:
 - Smart Plant (SP-3D)
 - Smart Sketch (SP-2D)
 - Smart Plant Electrical (SPEL)
 - Bentley Microstation
 - AutoCAD
- Professional user of Primavera P6, certified by CMCS (2015):
 - Project Management in P6.
 - Advanced Project Management in P6.
 - Resource Management in P6.