

104685-MEC-568DEGHSnq-E-2007

Mechanical Commissioning Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 12 years hands-on experience in the field of commissioning & executing mechanical systems including HVAC, fire suppression systems & plumbing projects.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 22/07/1985
Gender : Male
Marital Status : Married
Residence : Currently KSA

EDUCATION

: B. Sc. in Mechanical Power Engineering, Alexandria University, 2007

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD (2D, 3D) all versions
: HAP (Hourly Analysis Program) for HVAC Works Design
: ELITE Fire Fighting Design Software (for Sprinkler System Design)
: Primavera P6 (for project management)
: MathCAD (for Engineering-Problems Solving Productivity)
: Automation Studio 5.5 (for Designing Hydraulic Circuits)
: Nastrane (for Moving and Presenting all AutoCAD 3D Products)
: Visual Basic 6
: Adobe Photoshop CS5

TRAINING COURSES AND CERTIFICATIONS

: Project Management Fundamentals – 30 Hours (PMP Certificate - Preparation).
: HVAC System Design Course – 60 Hours (Design - Maintenance - Installation).
: Fire Fighting Systems Design – 40 Hours (Wet systems - Clean Agents).

- : OSHA – 10 Hours (Certificated Occupational Safety & Health Training Course).
- : Project Management - Primavera P6 (Course 102 - Project Management in P6).
- : Orascom Construction Industries (as a Technical Office Mechanical Engineer).
- : ConTrack International (as a Site Mechanical Engineer).
- : OMEGA for contracting (as a Technical Office Mechanical Engineer).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Aug. 2017 till now
- Employer** : American International Contractors Inc.
- Project** : Special Projects, Taipei, Taiwan - Project: American Institute in Taiwan (AIT)
- Job title** : Mechanical Commissioning Engineer - Commissioning (Cx) Department
- Job Description** :
- Along with the ongoing work in the US Conclulate in Jeddah.
 - Studied the scope of work, contract, Technical requirements, specifications and standards to perform the work in compliance to the specified requirements.
 - Prepared technical specifications and evaluated mechanical process equipment and material orderings.
 - Monitored the ordering and delivering of materials and equipment to on site stores for installation, as per project schedule.
 - Attended the project review meeting to discuss about the progress of the project and to resolve issues if any.
 - Reviewing Pre-commissioning & Commissioning Procedure of the project and allied utilities.
 - Rendering Technical Services and assistance to commissioning operations, marking up of P&IDs and checking against As-Built drawings.
 - Carrying out the monitoring of project performance in line with commissioning activities.
 - Preparing procedures for the commissioning of systems and coordinating with company Cx representative and client Cx agent to witness the testing and evaluation of the project.
 - Ensuring that proper approved documents of different units are in place prior at the start of Testing and Commissioning activities.
 - Finalizing the commissioning schedule of the site activities and accordingly dividing the work through Cx team and allocating needed resources such as manpower and tools etc.
 - Making sure that all necessary tools and equipment for commissioning are available with the team.
 - Making sure that all systems tests are completed before taking over by Cx team.
 - Preparing Cx action /check lists, being sure to be completed and the critical records highlighted.
 - Tracking all specifications required and ensuring the availability of manufacturer recommended spare parts.
 - Receiving the details of systems from QC/QA and Site teams and then managing the Testing and Commissioning process.

- Good knowledge of interfaces between different units, which will provide a correct sequence of commissioning activities.
- Coordinating with Health and Safety Executive (HSE) unit to make everybody aware of likely danger potentials of commissioning activities.
- Successfully commissioning and handing over the commissioned project to the Client/Authorities after completion of commissioning activities, along with the respective operation manuals and documents.
- Providing necessary training to the client operation team, enabling them to run the all project systems.

Dates : From Nov. 2015 till now

Employer : American International Contractors, Inc.

Project : New US Consular Compound – Jeddah – KSA

Execution of the whole new compound containing facility buildings to turn-key level, hard-scape, soft-scape and infra-structure networks. Mechanical systems included are, not limited to, HVAC (Central chilled water systems, DX systems, ventilation, pressurization, purging), Fire Suppression (wet, dry, clean agent systems), Plumbing systems (domestic water supply, drainage, Storm), Waste water treatment plant, Fuel system, Swimming pool, Fountain, related BAS works, Elevators, Vehicle Lift, ...etc.

Job title : Mechanical Commissioning Engineer - Commissioning (Cx) Department

Job Description :

- Leading a team of Engineers and Supervisors with the responsibility of executing and supervising, commissioning, tests & start-up for all mechanical equipment and systems of the project.
- Reviewing Pre-commissioning & Commissioning Procedure of the project and allied utilities.
- Rendering Technical Services and assistance to commissioning operations, marking up of P&IDs and checking against As-Built drawings.
- Carrying out the monitoring of project performance in line with commissioning activities.
- Preparing procedures for the commissioning of systems and coordinating with company Cx representative and client Cx agent to witness the testing and evaluation of the project.
- Ensuring that proper approved documents of different units are in place prior at the start of Testing and Commissioning activities.
- Finalizing the commissioning schedule of the site activities and accordingly dividing the work through Cx team and allocating needed resources such as manpower and tools etc.
- Making sure that all necessary tools and equipment for commissioning are available with the team.
- Making sure that all systems tests are completed before taking over by Cx team.
- Preparing Cx action /check lists, being sure to be completed and the critical records highlighted.
- Tracking all specifications required and ensuring the availability of manufacturer recommended spare parts.
- Receiving the details of systems from QC/QA and Site teams and then managing the Testing and Commissioning process.
- Good knowledge of interfaces between different units, which will provide a correct sequence of commissioning activities.

- Coordinating with Health and Safety Executive (HSE) unit to make everybody aware of likely danger potentials of commissioning activities.
- Successfully commissioning and handing over the commissioned project to the Client/Authorities after completion of commissioning activities, along with the respective operation manuals and documents,
- Providing necessary training to the client operation team, enabling them to run the all project systems.
- Key Highlights:
 - Developed the project commissioning system from scratch.
 - The newly developed commissioning process was highly appreciated by the client and commissioning agent.
 - Successfully completed the Commissioning Process before 3 months of the scheduled date.
 - Played a leading role in solving large number of major technical issues of complex systems like water treatment and building automation systems.
 - Received a recommendation letter from the client, stamped by the US government, in appreciation of the remarkable performance.

Dates : From Aug. 2014 till Nov. 2015

Employer : American International Contractors, Inc. – Special Projects (Archirodon JV)

Project : US New Consular Compound – Jeddah – KSA
 Execution of the whole new compound containing facility buildings to turn-key level, hard-scape, soft-scape and infra-structure networks. Mechanical systems included are, not limited to, HVAC (Central chilled water systems, DX systems, ventilation, pressurization, purging), Fire Suppression (wet, dry, clean agent systems), Plumbing systems (domestic water supply, drainage, Storm), Waste water treatment plant, Fuel system, Swimming pool, Fountain, related BAS works, Elevators, Vehicle Lift, ...etc.

Job title : Senior Mechanical Technical Office Engineer

Job Description :

- Led a team of employees with the responsibility of managing the activities pertaining to the Mechanical systems of the project at the technical office.
- Studied the scope of work, contract, Technical requirements, specifications and standards to perform the work in compliance to the specified requirements.
- Established the work scope of items in schedule of rates which is established in accordance with Standard Estimating Guide.
- Obtained approvals of drawings / material submittals from concerned authority / consultants and handed over the marked up drawings as per site conditions to the drawing department.
- Prepared technical specifications and evaluated mechanical process equipments and material orderings.
- Managed the Bidding / Commercial & Technical bidding evaluation / Contract Documents for selection of the Subcontractors.
- Monitored the ordering and delivering of materials and equipment to on site stores for installation, as per project schedule.
- Attended the project review meeting to discuss about the progress of the project and to resolve issues if any.
- Closely monitored and reported budgeted Vs actual cost of the project

during construction period through to project completion and prepared cost analysis report.

- Maintained working relationship with the subcontractors, clients, representatives and suppliers.
- Monitored the work done by the subcontractors, prepared commercial queries and evaluated subcontractors documents.
- Maintained documents regarding the progress of the construction process on day to day basis and kept proper records of testing & commissioning of individual systems for onward submission.
- Arranged/Scheduled inspection of works by the Consultant at site upon raising of IR.
- Prepared documents, technical hand books and organized training sessions to client representative (Engineers, Technicians).
- Key Highlights:
 - Developed huge fuel farm technical drawings with indepth and captivating level of details to the level of nuts and bolts, where they didn't need to make an as-built as they made it as we directed.
 - Have an exemplary record to be only only mechanical technical support engineer, acting with the consultant and driving site team works in a project with this size and this amount of special systems.
 - Successfully completed technical office works before the scheduled date by four months, which helped in making site work more smoother.

Dates : From Jan. 2013 till Aug. 2014

Employer : American International Contractors, Inc. (Archirodon JV)

Project : Cairo West Air Base, Egypt
Execution and Renovation of 21 army facility buildings, shelters, taxi ways, infrastructure networks and air fighters' runways. Mechanical systems included are, but not limited to, HVAC (chilled water and DX systems, ventilation, pressurization), Fire Suppression (wet, dry, clean agents foam systems), Plumbing systems (domestic water supply, drainage, compressed air), Medical gas systems, Aviation Turbine Fuel system, ...etc.

Job title : Senior Mechanical Technical Office Engineer

Job Description :

- Analyzed Tender drawings, Specifications, Related codes and standards, Tender pricing, Technical letters and accordingly made recommendations.
- Responsible for selection of equipment and materials, contacting suppliers, preparation of quotations comparative statements & submittals and follow-up for the replies.
- Conducted engineering works viz., work-shop-drawing, installation details, RFIs, Letters.
- Handled various engineering tasks related to army buildings specifically in Mechanical works (HVAC, Fire suppression, Plumbing, Compressed Air, Medical Gas, Fuel System etc.) and also works related to air base utility networks (Gravity sewer, Forced Mains, Domestic Water, Fire Water), lift stations and water treatment plants.
- Coordinated works with all other related trades.
- Key Highlights:
 - Received an opportunity to associated reputed consultant like US corps of engineers in my first US army project.

- Managed assigned huge responsibility of being the single point contact for all mechanical technical support and also the coordination with the consultant and management of all the site team works in a project of this magnitude, value with special systems.
- Developed technical drawings of a huge fuel farm, incorporating micro level details such as nuts and bolts, which served the purpose of as built drawing and the party didn't have to make an as-built drawing.
- Accomplished the setting technical office, 4 months ahead of the scheduled date, which enabled the site works more efficient through better communication and coordination.

Dates : From Aug. 2009 till Jan. 2013

Employer : Orascom Construction Industries

Project : MARASSI (Sidi-abdul-rahman, Mediterranean North Coast, Egypt)
All Mechanical & Plumbing work of 31 Buildings contains 500 Apartments, finishing of 180 Villas and Townhomes, Main Gate, Beach club Parking Building (Ventilation and Firefighting works), Hub Rooms, Infra-structure work (Domestic-Drainage), HVAC system Air Balancing.

Job title : Mechanical Technical Office Engineer

Job Description :

- Led the Mechanical office team, managed all 3 separate packages simultaneously and coordinated with clients, consultants in providing technical inputs & managed the Technical Office activities.
- Prepared all shop drawings using AUTOCAD in consideration with the contract, BOQ and relevant codes.
- Studied Tender drawings, specifications, related codes and standards, tender pricing and technical letters.
- Prepared and submitted as built drawings and O&M manuals to consultant for approval.
- Followed up the works at site regularly and reviewed project progress and the availability of required labor, material and equipment at site, in order to ensure the works move smoothly.
- Performed material survey, consultant contacting, Technical RFIs, Letters and correspondence.
- Conducted internal meeting on weekly basis for mechanical team (Supervisors & foremen) to update the progress achievements and assigning new targets.
- Key Highlights:
 - Single handedly finalized all work-shop-drawings for Phase #1 of the awarded contract, before 6 months of the scheduled time.
 - Promoted from Junior to Intermediate Engineer on completion of 1 year service, with a total experience of 3 years, which is career record.
 - Maintained a lead in all activities of site works by ensuring timely supply of material, drawings and supporting technical paperworks, which helped the project management team, consultant and client to complete the project earlier.
 - Had to leave the company due to personal reasons with no hurt feelings and the management expressed their feelings through appropriate words mentioned in the relieving letter and professional

certificate.

- Dates** : From Apr. 2008 till Aug. 2009
- Employer** : ConTrack International Co.
- Project** : MARASSI (Sidi-abdul-rahman, Mediterranean North Coast, Egypt):
- Installing Full Domestic and waste water underground infrastructure network.
 - All mechanical & plumbing work of 250 villas, 2 mock-up villas, 50 Townhouses.
 - All mechanical & plumbing work at the Beach Club House contains 4 swimming pools, 2 spas, 50 bathrooms, 10 A/C DX-units c/w ductwork, insulation., etc., Fire-Fighting networks.
- Job title** : Junior Site Mechanical Engineer
- Job Description** :
- Monitored site progress and quality of Mechanical works and compliance with approved shop drawings and installation schedules.
 - Worked as a Mechanical, Fire Suppression and Plumbing Site Engineer and ensured that all site activities are conducted under controlled conditions as per shop drawings, method statements, and specification and work plan.
 - Reviewed Shop drawings, Specs, Method Statements, Consultant comments etc.
 - Prepared Shop drawings for Fire Suppression networks.
 - Co-ordinated with MEP subcontractor both at site level and with subcontractor's engineers.
 - Monitored and reported site progress and ensured compliance with specification and drawings.
 - Oversaw the administration of contracts with vendors for the provision of services and equipment.
 - Followed the HSE Engineer's instructions on site and ensured strict compliance.
 - Responsible for all testing and commissioning of mechanical system on site.
 - Ensured smooth commissioning of the erected mechanical projects.
 - Prepared daily reports, site progress, labor & material status, IRs, site problems.
 - Key Highlights:
 - During the absence of senior officer who was on leave for 3 months, had the opportunity to take over his duties and manage all the project activities efficiently, without giving any opportunity to feel the senior officer's absence.
 - Received 2 advance increments and 3 Bonuses during the one year period in appreciation of the efforts put in to progress the project, even by working day and night.
 - In recognition of the remarkable performance, management transferred to the new project, to take over Orascom Construction Industries, after scope of work completion based on the recommendation of project consultant.
 - Finished scope of works 6 months ahead of the project scheduled date, and received a letter of appreciation from the client in recognition of the remarkable progress achieved.
 - Gained valuable first time work experience in the infrastructure and

plumbing works and the MEP and project manager had expressed appreciation about the activeness.

- Dates** : From Jun. 2007 till Apr. 2008
- Employer** : OMEGA for Contracting
- Projects** :
- SUMED (New Admin Building, Laurant branch, Alexandria): 6 Central DX system (24 T.R each) c/w duct work and Wet fire suppression system (Sprinklers, Fire Cabinets, Fire water pump rooms and water tanks), Co2, FM200.
 - ANRPC (The new administrative building): 12 Central Concealed DX units (150 MBH each) and Wet firefighting system (Sprinklers, Fire Cabinets, pipe network), FM200 firefighting system
 - All Tender Works, Technical Office work including work shop drawings, material submittals, material take-offs, vendors contracting, paper works.
 - BIBLIOTHECA ALEXANDRINA (The additional Load and annex): Chilled water system consists of two 250 TR chillers each, 3CHW.Pumps, 7 Down flow AHUs, 10 FCUs, Duct works, Insulation, ...etc.
- Job title** : Junior Technical Office & Site Mechanical Engineer
- Job Description** :
- Responsible for Timely and Quality Execution Work of multiple mechanical projects at any point of time.
 - Handled all Tender and Technical Office work for the projects running simultaneously.
 - Preparing Project Schedule either in Excel or Microsoft project Professional.
 - Coordinating with Engineering Team to get construction drawings approved with Engineers, Projects Team and Customers.
 - Coordinated with Material Management Team for appraising material availability and consumables shortage at project Site and getting them delivered.
 - Prepared Daily Progress report and sent across to the senior officers for perusal.
 - Key Highlights:
 - Being the first job, had the opportunity to learn a lot about the project execution.
 - Finalized and delivered to client one in-hand project (SUMED), well in time.
 - Had the opportunity to finalize all all tender works of the one of the biggest projects Company was awarded i. e. "BIBLIOTHECA ALEXANDRINA (The additional Load and annex)".
- Field of experience** : • Extensive experience of 12 years in handling major projects of commissioning of mechanical equipment and systems and executing the mechanical engineering projects with reputed establishments in the Middle East; proven expertise in commissioning a wide variety of mechanical systems such as HVAC systems, Fire Suppression, plumbing etc. and managing Mechanical System projects of US Overseas Consulate building Program, Military Air Bases, Mega Real Estate Projects, Admin Building, HVAC Renovation Projects etc. Possess a long track record of ensuring timely completion of a number of projects with highest quality, within budget by effectively organizing,

managing and utilizing all the available resources; able to efficiently lead teams to undertake execution and commissioning of major mechanical oriented projects; always willing and wanting to be associated with all aspects of project cycle and confident of delivering high end projects; strong work ethics with ability to work under pressure and take on difficult and complex challenges. In pursuit of new endeavors, to utilize the acquired skill and competencies gained over the years.

- AREAS OF EXPERTISE:
 - Mechanical Commissioning.
 - Project Execution & Supervision.
 - Client Relations.
 - Methods Statement.
 - Project Management of Mechanical Systems.
 - Material & Equipment Selection and Submittals.
 - Fire Suppression System.
 - Team Leadership & Management.
 - Plumbing Systems.
 - As Built Drawings.
- PROFESSIONAL SYNOPSIS:
 - Demonstrated expertise in organizing & devising strategies to execute and deliver Mechanical projects for large corporate and commercial establishments.
 - High-performing mechanical engineering professional with extensive skills in developing estimates, budgets and plans of large scale Mechanical projects and experienced in variance studies, value engineering, allocation and optimization of resources.
 - Well versed in all stages of project development and implementation, with a track record of successful completion and commissioning of various Mechanical projects for safe operation and sustained operational effectiveness.
 - Exceptional ability to coordinate the Mechanical projects from the conceptual development stage through final commission stage and make sure that the project is completed on time and within budget.
 - Demonstrated expertise to develop the shop drawing of Mechanical systems and to carry out engineering activities with regards to review, implementation and commissioning through to operations with direct involvement in all project stages.
 - Outstanding skills in interacting with clients, understanding their requirements and accordingly providing customized solutions/services, thereby maintaining complete client satisfaction and creating repeat business opportunities
 - Visionary and decisive leader, noted for sound, practical management style and excellent organization, communication, presentation & interpersonal skills; Proven ability to lead and motivate large cross-functional teams to maximize productivity.
- Technical Office Skills:
 - Preparation of HVAC Shop-drawings including duct-works and piping (sizing, routing, equipment arrangement, hook-ups, special equipment, pump rooms, industrial hoods, installation details) and air flow diagrams for proper TAB works, sequence of operations diagrams etc.

- Developing the shop-drawings of Kitchen equipment arrangement and mechanical requirements.
- Estimations for cooling loads (using HAP), static pressures and acoustical requirements.
- Preparation of F.F shop-drawing including sprinkler (wet, dry, pre-action, deluge) systems, foam, clean agents, kitchen fire suppression, area pressurization and life safety plans.
- Estimation of wet systems (using ELITE), clean agents and piping networks.
- Preparation of shop-drawings of plumbing of domestic water and drainage networks.
- Mechanical systems components selection, suppliers contacting, Preparation of quotations comparative statements, submittals and follow up.
- Coordination and preparation of infra-structure networks (Domestic water, Fire water, Gravity and Force main drainage and WWTP).
- Handling paper works of Letters, RFIs, Waivers, etc.
- Cost and technical estimations and negotiations of proposals, required by project client.
- Preparation of coordination drawing of MEP works.
- Quantity surveying and material control.
- Follow up mechanical site execution problems, resolving the issues.
- Studying new projects, contacting suppliers, counting manpower, builder works, Paper work (in the light of Specifications, Tender BOQ, Tender Dwgs, Vendor Lists).
- Good knowledge of mechanical international and local codes of (HVAC, FF, Fuel, CA etc.).
- Execution Skills:
 - Expertise in managing the execution/installations of the following equipment & Systems:
 - ❖ HVAC work (Chillers, AHUs, FCUs, Fans, CRACs, VAVs, Fans, Louvers, Outlets, duct works) and Chilled water piping networks with all required hook-ups.
 - ❖ Chilled water pump room with all required valves.
 - ❖ F.F wet systems (Sprinklers, Fire Cabinets, Fire Hydrant, Siamese).
 - ❖ F.F Clean Agent systems (CO2, FM200, INERT, NORVEC, ANSUL).
 - ❖ Pump rooms, Water Tanks.
 - ❖ (Internal and external) water supply networks & domestic water pump rooms.
 - ❖ (Internal and External) gravity and force main drainage networks (PVC, Cast & Ductile Iron., etc.), manholes, septic tanks, sewage pumps, lift stations.
 - ❖ Installation of plumbing fixtures with high finishing level.
 - Administering the philosophy of "Safety First" at the work environment.