

# Amr Elbadawy

## Construction Engineer

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Birthdate: 25<sup>th</sup>, August 1987.

Driving Licenses: Egypt, KSA,  
International



- **Country of Residence:** kingdom of Saudi Arabia (Transferable Iqama)
- **Egyptian Syndicate:** License No.43/0158
- **Middle East Engineering Council:** License ID MUI-8256901
- **Saudi Engineering Council:** License No.213641
- **Cambridge University U.K:** Certificates 8753968-9020728
- **Saudi Aramco Certified (001-061A):** Construction Manager
- **U.S.A Department of State:**15020669-3
- **Washington D.C Notary Commission:** License No.580524
- **District of Columbia Apostille:** License No.355854

(Recommendations from Experts Project Managers & Original copies of Certificates are available upon request)



### Experience 10 Years in Construction Engineering & Management field

Main Target to acquire more Expertise & knowledge in the Construction field will help being Technical Expert at Managerial Positions, experienced achieved challenging Positions starting Site Engineer, Technical office Engineer, Senior Planning Engineer, Manager Technical office (Saudi Binladen Group), Construction Manager (Saudi Aramco) Approved, Project Manager (Royal Commission), Project Manager (Saudi Specialists)



Saudi Specialists Real Estate Co.

**Madinah – Kayan1 Project** Scope of Construction Residential & Commercial Buildings, With Total 2,292 Units, Total Area 468,000 m2 & Total Budgeted Cost 1.6 Billion Saudi Riyals.

- Owner: Saudi Specialists Real Estate Co.
- Consultant: Worley Parsons
- Contractor: Saudi Specialists Real Estate Co. (Contract: Fixed Price)

**Project Manager:** Reporting to Director & Client Responsible for all Project disciplines for all Construction works & Under Ground utilities Starting from Budgeting total 2,292-units, Area Divisions & Scope alignment phases

#### **Achievements:**

1. Prepared Detailed Total Project Plan from scratch while breaking down to independent milestones (Time, Cost, Quality) benefit as decreasing risks of delay from dependencies and increasing numbers of (Management & Contingency) reserves while at the same time acquisition for opportunity for Project Schedule compression for Time saving.
2. Prepared several Initial Architectural Design Drawings Proposal using Auto Cad 2019 for Client decision support
3. Prepared B.O.Q (Structure, Architecture, Mechanical, Electrical) Quantities takeoff & Pricing as from Drawings
4. Prepared Using Primavera P6 Ver 15.4 detailed WBS, RBS to least work packages level for maximum accuracy and easily managed with Relation sequence, Time Schedule (T.F, F.F, E.S, L.S, E.F, L.F, Lag, Lead, Critical & Near Critical path, Gantt chart) Baselines integrated with Cost Schedule & Allocations (Cash flow In & Out) Monthly Histogram cost allocations and Cumulative Curves integrated with Resource Schedule assignments (4Ms) including Manpower, Material, Money, Machinery integrated with Procurement Plan for Long & Short lead items (Quantities, Time & Cost) after (Materials & Vendors) short listing & Prequalification stage to Final approval stage & Closing out.
5. Prepared Project Baselines by Graphical Presentation of Time & Cost (Direct, Indirect Costs & Expenses).
6. Prepared Estimates of Different Plans & Scenarios according to different designs and Completion dates as for Cost benefit analysis (CBA)
7. Prepared Detailed Risk, Safety, Quality, Communication & Equipment Plans from (Risk triggers, Response Plans, Cardinal values from Probabilities & Impacts and listing by (Green, Blue, Orange, Yellow, Red) Pages, Quality Assurance & Control, Safety Regulations while using Equipment, PPEs, Safety signs, Material Storage areas, directions with facilities, handling and laying down materials, temporary fences, safety barriers and tapes, Workshops, Machinery Schedules)
8. Prepared Detailed Studies (Land Cost, Construction Cost, Total Cost Selling & Net Profit according to Client request which results with approval & Receiving a loan of 15 Million Riyals from Bank.
9. Prepared Plan using Fast-Track Technique, Crashing Activities, Resource Leveling, Smoothing & Allocations for a symmetric final curves (Parabolic & Linear increase) according to Client Cost Capabilities
10. Supporting Client with detailed Feasibility Studies for all 3 Phases and Break down Structure including all requirements starting by numbering 43 Blocks, Land Cost, Construction Cost, Total Cost, Selling Price & Net Profit with different Scenarios while advising & recommending Client for best Profitable Scenarios according to CBA analysis
11. Dividing & locating land areas 273,000 m2 with 30 different models, 50% & 60% building land area according to government requirements for each group from 30 models while advising and recommending Client for most Profitable according to Studies and Calculation Scenarios

July 2020 – Present

12. Consulting on Design offices as Client representative and Coordinating between Client and Designers for fulfilling Client requests & Requirements from floor levels, interior design, facades, room locations & dimensions, while taking in full consideration to be most safe & economical for cost saving related with time saving during execution phase
13. Assigned as Project Manager for Super Structures including Scope of Project underground utilities for Drinking & Sewage water for Planning & Supervising teams, Monitoring & Controlling Scope of work (Time, Cost & Resource Schedules)
14. Assigning responsibilities for project teams with recommendation while advising for Client decisions
15. Manager & Leader for project team as helping team achieve their daily tasks according project requirements from Site works & Technical office works while Assigning responsibilities according to Hierarchy
16. Prepared Scope Alignment, Method of Statement, Detailed Time Schedule & Cost Schedule (Cash flow), Detailed Resource schedule, Daily site reports with Progress update (2 Weeks look ahead Monitored report for Client submission)
17. Related to Project Life cycle (Initiating, Planning, Execution, Monitoring & Controlling, Closing) prepared Monitoring & Controlling Plan as assuring project is on schedule and iterative cycle by taking KPIs Construction requirement (Schedule Performance index SPI and Cost Performance index CPI), Monitoring Earned Value (EV) and as for productivity assuring final numbers equals 1 or more while SV or CV be in Consideration.
18. Assured All PMI 10 Knowledge areas are completely applied at the project
19. Estimated Productivity rates for breaking down all Project activities & Resources (underground & Super Structure)
20. Prepared Milestone Quantities & Cost Graphically for Client Presentations with targets & Objectives displaying
21. Prepared a list of Recommendations & Advises for Client decision making
22. Revised Contracts & Quotations for resource Prequalification & selections while using all types of Communications (Internet & Emails, Site Meetings, Telephonic, Visiting Supplier Store location)
23. Assigned all Sub-Contractors & Vendors Project Resource Requirements Starting from (Soil Investigations & Borings, Retaining & Shear walls ,Excavation, Concrete Skeleton structure(Steel, Formwork, Water & Thermal insulation works), Architecture works starting by different types of Block works continuing by Steel & Wood (Doors, Windows & frames) false ceiling, tiles & Skirts, internal & external plastering till final painting works, Electromechanical works starting by cables and pipes from foundations continuing by plumbing's with Saudi code requirement for maximum embedded Percentage for pipes & Conduits from Concrete Slabs & Columns continuing by air conditioning (HVAC & Split units) , Roof & Underground water tanks & Pumps, PVC Pipes, Generators, Electrical Panels, Heaters according to Specifications till Turnkey.
23. Daily meetings & Interviews for assigning all resource parties from (Sub Contractors- Consultants – Suppliers – Factories- Project Team) for Quotations according to selection criteria after submission requirements of profile, Laboratory tests in case of requirement and short listing according to budgets & Project Iron Triangle Constraints (Scope, Time, Cost, Quality)
24. For underground utilities along 14 Km prepared method of statement, B.O.Q, Time, Cost, Resource Schedule and supervised on preparing Profile underground sections drawing for Sewage & Drinking water preparing for site Execution work.
25. Starting by first stage material selection backfilling and compaction according to government consultant requirement
26. Digging till the required slope for each line for pipes (Connection for standard 3 meter or custom requirement)
27. Assuring fitment for sewage network with required slope and more depth digging for manhole rings the combination according to standards (30,60 & 90) cm height with standard 1.2 diameter till reaching asphalt level
28. For underground utilities calculated sloped pipes inverted level backfilling and gravel compaction, pipe laying distances then selected materials and compacting 2 stages then finally subbase material while compaction using Different Machinery & Equipment of (Cranes, Shewels, Bobcats, Excavators, Bulldozer, Compactors walk behind, Vibrator & Graders) considering swelling factor before and after Digging for actual quantities considering pipes slopes increased length from drawings for Costing Excavator & Truck soil hauling and return as maximum accuracy Estimation (Planned Estimated Values Vs. Existing and As built Valued)
29. Applied Studies for scope of work related to other projects in the company (Gawhart Al Alia Madinah Project Total Cost 500 Million Saudi Riyals, Al Qassim Project Total Cost 300 Million Saudi Riyals) including Buildings Construction Cost as by preparing B.O.Q, Area divisions, Floor levels integrated with Project land different areas adding Cost till reaching final calculation of selling Price & Net profit after building Percentages of deductions 50% & 60% according to areas divisions related to government requirements.





## Shade Corporation LTD

### **Dammam BI-10-00966-upgrading security Facility Air-liquid Sea water Treatment Plant**

Scope of Construction Saudi Aramco Security Buildings, Guard House, Camera Poles, Inner Fence, CRF Crash rated fence 3 Kilometers, Auxiliary gate, Sunshade. Cost 76 Million Saudi Riyals.

- Owner: Saudi Aramco
- Consultant: Worley Parsons
- Contractor: Shade Corporation (Contract: Fixed Price)

**Construction Manager (Aramco Certified):** Reporting to Project Manager & Director, Responsible for Project Construction for all disciplines as Leading, Coordinating & Managing: Team of Civil, Planning, Cost, Safety, Quality, Electrical, Telecommunication, Mechanical, Surveyor & Procurement Engineers. Leading Forman's, Work Permit Receivers, Labors & aiding them.

✚ Tracking Materials sheets with Procurement Engineer & Vendors and follow up for deliveries according to life cycle Procedures, Using Oracle JD Edward requests ERS, MRS, SRS for Resources (Materials, Machinery, Manpower), Problem solving with restrictive Aramco LPD during execution of activities, Problem solving from Failure of Machineries' & Equipment's (Buses, Generators, Jack hammers, Asphalt cutters) Weekly meetings with Saudi Aramco. Change orders between B.O.Q & drawings, Shortage of Labors at some instants and for Time saving act as leader for helping labors in steel fixing activity, Excavation points for barricades and aligning with Traffic Plan.

#### ✚ **Achievements:**

1. Modified approved plan between Aramco & Shade Planning departments to the optimum Time-Cost benefits.
2. Reduced Time by 30% by adjustments in Schedule using different techniques, Float increasing, Far from Critical Path, Decreased Risk for delaying activities, Monthly Resource distribution, benefits Aramco & Shade.
3. Reduced Cost by 50% for Sub-Projects (Sequence, Assignments, Man-days, Trips Charges), Cost benefit.
4. Weekly Work Progress Monitoring & Report Updating as Cumulative and engage my team if Recovery needed.
5. Daily meetings with all departments for problem solving acting as leader in most cases as increasing Progress.
6. Footings & Starter bars steel fixed at Layard in Parallel with Excavation activities for Resource-Time benefit.
7. Prepared Different Plans Scenarios According to (Cash flow, Amount of work, Least Time-Cost) & for Recovery.
8. By Monitoring Project almost ahead of Schedule by 60% Earned Value Calculation 1.6 (Satisfied Client Aramco)
9. Claimed Manpower assigning from for optimization and applied Techniques of Allocating, Leveling, Smoothing on the other hand as Uniform monthly distribution for optimum CBA.
10. Adjusted Traffic Management Plan, Benefits Space for Aramco Air-Liquid & Seawater treatment plant Parking area for Safer, Easier, Faster Buses and Cars drivability.
11. Trial Pits for Excavation activities due to restrictive Aramco Plant embedded utilities as active Risk response
12. Site Trial Survey Points for Safety & Site Plant Conditions for Scenarios Preparation and Analysis.
13. Problem solving with vendors due to Previous Poor Management systems in Material Milestones P.Os.
14. All Safety Precaution have been considered related to Saudi Aramco while Executing of work.
15. Assigning Manpower to the Project According to their needs & skills.
16. Assigning Machinery to the Project According to Site Equipment plan needs, Communication between Logistics, Warehouse & Stores according to the project budget (Renting vs. Owning) with CBA.
17. Plan dates for Project funding's, Machines, Generators Maintenance & Diesel, Site Potable water, Septic tank.
18. Problem solving related to Labors Accommodation (Potable Water, Electricity, Gas Cylinders, Metrics, and Coordination with suppliers), Solving Labors Personal issues with Company from Finance...etc
19. Coordination with Saudi Aramco WPR and DCC related to renewal of Plant Licenses for all Engineers & Labors
20. Ensuring Inspection of Machines & Equipment's with coordination and related to Aramco LPD Specs & Code.
21. Ensuring Team are following Aramco Procedures & Ethics at the Site related to Safety, Health & Environment
22. Monitoring & Controlling Sub Contractor for Fence Sub Project Quality, Performance & submitting Invoices

#### **OTHER EXPERIENCE:**

- **Project Manager (Royal Commission) Jubail The Move Project Zamil Steel** (Project total 30 million Saudi Riyals) 7 Building & Marine Dock Managing & Leading a Team of 10 Engineers (Construction Manager, Technical Office, Site Engineers, Elect-mechanical, Procurement, Safety, Surveyors, Document Control) Subcontractors (Due to Covid-19) Project was hold
- **Client Representative Part time (Daera Elnagah) Precast Factory for Ministry of Housing** full filling technical Data requirement for receiving a loan of 100,000 Million Saudi Riyals (advantages & disadvantages) on market competitions (Hollow Core Slabs, Bearing & Non-bearing walls Internal & External, Boundary walls,) Submitted a complete project scope of 1000 villas built using technique of Precast Vs. Cast in situ (Quality, Cost, Quality, Time, Resources) and complete Hierarchy with Total cost including Method of Statement and technical connections from Soil Investigations, Excavation till turnkey.

**Three Fast Track Projects Executed in Parallel, Total Cost around 89 Million Saudi Riyals:**

1. Jeddah-Murjan Hall Expansion Total Cost around 60 Million Saudi Riyals,
2. Taif-Shafa Resort Total Cost around 26 Million Saudi Riyals,
3. Dorra-ElAroos Sheikh Saleh Kamel Palace Maintenance Estimate Cost 2.2 Million Saudi Riyals

**1. Jeddah-Commercial Murjan Sports Hall Expansion Project:** Total Area around 5,000 m<sup>2</sup>

Scope of Construction Sport Hall Phase-1, Demolishing Existing Hall then Starting Construction for Phase-2.

- Owner: Dallah Albaraka
- Contractor: Dar-Elkhebra (Contract: Turn key)

**2. Taif- Residential Shafa Resort Project:** Total Area around 13,000 m<sup>2</sup>

Scope 10 Villages for Guests, Private Buildings, Kitchens, Diwaniya, Security rooms, Tank, Land scape.

- Owner: Dallah Albaraka
- Contractor: Themar Elhekma. (Contract: Turn key)

- Due to Project Geography Site Conditions Taif Mountains Force near to Daily raining, Humidity & Vapors which needs a lot of Quality & Risk Management Plans assessment & responses, High Probabilities Force Major, Schedule according Weather forecasting, Steel Oxidation, Delay Concrete Settle, Time-Cost Material & Concrete mixers Trips.

**Worked as Project Manager** (Client representative) Reporting to Project Director:

Responsible for Planning, Execution, Monitoring & Controlling all Projects Construction Works & Evaluation Contractors Performance related to Contract Conditions & Iron Triangle Scope of work, Time Schedule, Cost, Quality Control Resources available from Contractor, B.O.Q & Quantities Take off, Director Daily reporting as insuring Project is Ahead-On schedule.

- **Same Duties & Work Strategy for both Projects but differences in Site Conditions, Contractors Performance and experience using different levels and ways in Communications, Negotiations & Influencing skills**

**Achievements:**

1. Increased all over activities productivity rates, daily detailed inspection for insuring Quality of work performed reaching Engineering's & Specs requirements for avoiding rework.
2. Claimed Contractor for more Resources of Manpower & Insured Fast-Track-Crashed Project Plan is applied.
3. Claimed Contractor for using Resources of Machinery (Backhoe JCB & Bobcat) instead of Manual works adjusts.
4. Claimed & Insured all activities are Executed in Parallel for achieving minimum time of works.
5. Claimed overtime from contractor for all labors in case of quality of work not meeting our Specs.
6. Contractor Method of Statement revision for all activities for insuring Quality & Procedures of works avoiding rework
7. Claimed for Metal scaffoldings instead of Timber due to age as risk mitigation for safety and decrease site distances.
8. Tracking Suppliers Materials with Contractor to be ready at the site for avoiding any delays or lags in the activities.
9. Ensuring Contractors financial extract are ready to avoid any delays as to be on schedule.
10. Daily Inspection of Site works for Materials Quality and for all Executed works from Adjusting Excavation depth levels, Sheet Piles retaining walls thickness & Verticality.
11. Inspection all survey points as ensuring reaching out required projects axis and depth according to drawings
12. Daily Inspection of Site works from Insulation works, Plain Concrete, Steel works (Rafts & Columns & Slabs), Reinforced Concrete, Formworks, Plumbing's, Finishing's meets Drawings & Engineering specs with all measurements.
13. Ensuring Site Engineers from Contractors available all the working hours at the site with the latest drawing's revision
14. Revising Contractors RFIs Quality, Descriptions & dates of submission intervals while aiding & Recommending.
15. All Considerations for Safety Precaution in required from Contractor for applying at site during Execution.
16. Coordination between drawings (Structural, Architectural, Mechanical, Electrical, Telecommunications).
17. Daily Evaluation of Contractors Performance for all work activities with daily targets and reporting to Project director for all departments of Project Life Cycle (Planning, Execution, Monitoring & Controlling).
18. Weekly meetings with Contractor Project Manager while Daily with Site Manager, Engineers & Sub Contractors.
19. Ensuring all Contract Conditions are applied related to success of the Projects.
20. Problem Solving related to Site Construction Issues.

**3. Dorra-ElAroos Palace Maintenance Project:** Total Area around 1,500 m<sup>2</sup>

Scope of Palace Items Demolish, Maintenance & Repair according to Owners & Engineering requirements

- Owner: Dallah Albaraka
- Contract Type: Unit Price

**Worked as Project Manager** (Client representative): Reporting to Project Director

Responsible for Monitoring & Controlling Contractors Performance & Quality of work, Reporting for Items needs Repairing & Maintenance, Providing Sub Contractor Method of statement for Demolitions including Suspended Ceilings, Tiles, Electrical Conduits, HVAC ducts, Board Panels, Block walls, Openings, Repairs, Finishes. Coordination for Contractors (Invoices) & Installments, weekly reports for Work Performed related to the Plan.





## Saudi Binlادن Group

### Al Madinah El Munawara, Mega Commercial Project (Extension of Mosque Prophet Mohamed):

Project with a total area of 1,000,000 m<sup>2</sup>, with a total budgeted Cost around 300 Billion Saudi Riyals.

- Owner: Ministry of Finance with supervision of Saudi Ministry of Higher Education
- PMO: Khatib & Alami
- Consultant: DAR al-Handasah
- Contractor: Saudi Binlادن group (Contract: Cost Plus fee)

- ✚ **Worked as a Site Engineer** Reporting to Senior Engineer for Planning, Execution & Coordination for work milestones & resources (Materials, Manpower, Machinery) till the stage of Inspection with Quality Control & Consultant departments then Concrete pouring with best Quality of work complying with iron triangle, approved shop drawings, specs, code and experience in Construction works.
  - **Starting from** Excavation & Dewatering, Insulation (Geotextile & EPDM), Anode & Cathodic Protection, Injectable hoses, Piles repairs (Tests & Treatments), Steel works (Pile Caps H=3.65m 750 tons, Rafts, Tower Cranes Foundation Reinforcement, Slabs and Columns) using Mild & High-grade steel 60 & 75, Dia.20,25,32,40 mm, Concrete Pouring with grades M45,M60 & M85 achieved Highest productivity accordingly with the best quality, 480Kg/steel fixer & 20m<sup>3</sup>/Carpenter effectively planning & managing 4Ms Resources with all safety precautions.
- ✚ **Manager Main Steel Workshop (3-months)** Reporting to Projects Manager for Planning, Coordination & Technical Office works, for minimum time steel fabrication according to available resources - limited to area constraints, Revising BBS related to Shop drawings Re-baring, Crews (technicians, Foreman's & Labors) Tower & Mobile Cranes, Benders & Coupler machines (achieved Increased Productivity rates accordingly with quality).
- ✚ **Worked as a Technical Office Engineer** Reporting to Projects Manager Responsible for Quality Control & Coordination (Shop drawings & Design drawings) for Structural, Architectural, Elect mechanical, Survey, Portal updates, daily check list Requests for Inspection, Transmittal for Approvals, Document controlling center, Quantity surveying, Estimation of Steel & Concrete Quantities, Preparing As-built & Markup drawings, solving problems with consultants for Site Engineers, Achievement Increased Productivity rates for all Project Executed works.
- ✚ **Worked as a Planning Engineer** Reporting to Projects Manager Responsible for Project Scope alignment, Time, Cost & Resources Management from Experience and Studies in Construction Engineering & Management using Software Primavera P6 **Applied:**
  - **Scope Management** Scenarios of 6,13&26 Months Plans accordingly by Dividing Project Scope into 4-Phases for each sub-project (3 Zones) Resources & Quantities nearly 25%,50%,75%,100%, actual Steel and Concrete quantities target pouring 3,770,000 m<sup>3</sup>, Take-off from drawings with Contingencies reserve, Connecting Rafts, Pile Caps with slabs and Beams (Super structure area) of 48,000 m<sup>2</sup>, 468 Construction Joints with 68 different types of Columns, Arch, Walls & Cores Horizontally and aligning 7 slabs Vertically (-18.1 till +23.60 & +250.00)
  - **Time Management** WBS, AON & Relations (ES, LS, EF, LF, TT, FF), Lag, Lead, Critical & Near Critical Path, Histogram with limits, Budget labor units, Activity Priority leveling, Milestones, Gantt Chart, Master Plane Schedule, Manpower-Time Impact analysis. **Schedule Compression** Different techniques as Fast tracking, Crashing, Optimization, Smoothing activities for least duration according to Site Conditions & Constraints, Man-days required according to Site area of work for highest productivity. **Achievement of Time Reduction by 40%**
  - **Resource Management** OBS, RBS Estimation for different scenarios Optimum Manpower related to productivity for best Earned Value, Resource assignments, Leveling & Allocation **Achievement of equal monthly Resource distribution Periods for Optimization.**
  - **Cost Management** **Achievement of Cost Reduction** on the same scope & resources (Manpower & Equipment's) using different techniques of estimation & assignments, Project Control Baselines Material (MRP) Schedule.
  - **Integration Management** (Scope, Time, Resources & Cost) Management.
- ✚ **Worked as Manager Technical Office (Project Manager Assistant)** Reporting to Projects Manager All Previous Responsibilities **Technical Office & Planning Engineer Leading (Planning – Technical Office) Teams** Procedures for Identifying work Packages and Activities for all Sub-Projects, Resources Productivity rates for Scope of work, Monitoring & Controlling % Progress of work, % Break down Estimation Execution, Daily Reports Estimation % Completion, Manpower Estimation Monthly distribution for Project requirements & Budget Unites according to approved Productivity rates from all departments.



## Al-Wataniya group for General Contracting

**Sheraton housing Construction of Residential Buildings, Power station buildings and landscape in Heliopolis total budgeted Costing of 30 Million Egyptian pounds Area 52,000m<sup>2</sup>.**

المجموعة الوطنية

- Owner: Heliopolis Company
- Consultant: Heliopolis Company
- Contractor: Al-Wataniya group for General Contracting (Contract: Turnkey)

- **Worked as a Site Engineer** Reporting to Construction Manager Responsible of adjustment Site access roads accordingly to Plan, Foundation level adjustment accordingly with Shop drawings Preparing for concrete works, Daily check lists for Execution & Inspection (Quality Control) according to specs, code and back experience for all Construction works Managing Crews Consisting Foreman's & Labors (Steel fixers, Carpenters, Masons, Plasters, Painters & Helpers)
- **Starting from** Site clearance, Survey works (Local) Mass diagram & Networks Using Total station, Theodolite & Leveling, Earth works (Excavation & De-watering works, Compaction works) Retaining walls, Steel works according to BBS & Shop drawings, Oxidation protection, Concrete cover protection, splices, Crosses steel bars tights and extensions removals Horizontal & Verticals with all safety precautions.
  - **Formworks components** Material quality Control Different types of slabs & columns (Solid slabs, Flat slabs & Hollow block slabs) water tanks, Cores, Slab on grade, Insulation works splices 15 End & 10 Side (Bitumen, Insu-build for water proofing while applying Silitun for heat insulation) with all safety precautions.
  - **Concrete works** Slump & Specimens Core tests (7&28 days) different techniques for Concrete Segregation avoidance using vibrators, Compressors, Pre-pouring, Pouring & Curing works according to specs, Masonry works, Openings, HVAC ducts & unites, Electric Networks till marble fixation, facades & Kerytal, Plastering (Alba & strings), Paintings, Flooring and Finishing's. any deviation Analysis Finally training 25-30 students yearly in our site and engaging them with work environment showing different types of works at different stages.

- **Worked as a Technical Office Engineer** Reporting to Projects Manager Responsible for Estimation for Cost & Quantities of (Steel, Concrete, Masonry & Openings etc.) to be executed and matching with B.O.Q, matching between Structural & Architectural drawings before the execution stage, Change & Variation orders Between B.O.Q & drawings, Quantity survey, taking any corrective actions needed and solving problems with consultant.

- **Worked as a Planning Engineer** Reporting to Projects Manager & Responsible for:

- **Time Management** Monitoring & Controlling (E.S, E.F, L.S, L.F) dates, Fast-tracking activities, Estimation for activities duration Bottom up Estimation, PERT & Monte Carlo simulation complying with iron triangle (minimum time & cost with accordance specs with best quality), Critical & Near Paths for activities using Software Primavera P6, Weekly report progress of work, Earned value, SPI, CPI, AC and auditing updates.
- **Risk Management** Applied Risk plane (Triggers, Qualitative & Quantitative, Risk Register & Assessment, Probability & Impact, Response Plans (Active, Passive acceptance, Mitigate, Transfer, Avoid) Contingency and Management reserve, Vendors & supplies Planes for avoiding delays for materials which will cause delay in time schedule, Auditing working & Calendar days according to summer & winter weathers.
- **Stakeholders Management** Matrix & Engagement levels using Organizational process assets (historical data).



Arab Contractors (Osman Ahmed Osman) Helwan University Project types of Sound proofing, Mats, Trusses, HVAC & Firefighting works. (Trainee)



SIAC Industrial Construction and Engineering Company HSBC Bank Project in Smart Village area of 4000 m<sup>2</sup> Responsible for the inspection of Steel works & Formworks. (Trainee)

## Education



### Brookdell University in the United States of America, New York.

- Master Degree (M.S) in Construction Management
- Completed 10 courses with 60 Credit hours Cumulative GPA: 3.58/4
- Chartered PE Professional Engineer from MEEC Middle East Engineering Council (2015).
- PMP Course with Dr. Joseph Philip (PMI Candidate Preparing for Exam).



### Cairo University in Egypt, Faculty of Engineering

- Bachelor degree (B.Sc.) Construction Engineering & Management Department.
- Completed 74 courses with 182 Credit hours.
- Graduation Project: Construction Project Management (EDITA new premises in Elshekh Zayed 6<sup>th</sup> of October City) with Grade: Very Good.

### G.P in Construction Engineering & Management



(Buildings, Water tanks and Landscape) total area of 20,800m<sup>2</sup> Total Cost 100 Million Egyptian pounds. ECG Engineering Consultant Group as Consultant while (SIAC) as the Main Contractor.

Jan 2012 - Aug 2014

May 2009 - Aug 2009

May 2008 - Aug 2008

Feb 2013 - Feb 2015

Sep 2004 - Jan 2012

Jan 2010 - Jan 2012



**Applied:**

- (OBS, WBS & RBS) Organization, Work & Resource Break down structure for the project.
- Quantity surveying (Takeoff) & Queueing theory for achieving optimum CPI.
- Alternative methods for (Project phasing, Form work, Equipment's) according to Time Cost needs amount work & Directions with temporary facilities,
- Project Method of statement.
- Activity Duration (AON, AOA, ES, LS, EF, LF, FF, TF), CPM, PERT & activity resources using Primavera P6.
- Resource profile (Budgeted units) for different activities.
- Cash flow & Over draft (cash in, cash out & S-Curve).
- Risk, Quality & Safety plan (Quality assurance & Quality control) accordingly with Different scenarios

Sep 2003 - Jun 2004



**Graduated from (ITACC) Thebes American College**

Approved CITA International (SAT-I & SAT-II) with Grade: Excellent (108%)

May 2003 - Sep 2003



**Memphis International American School**

Grade: Excellent (93%)

Sep 2000 - May 2003



**Cambridge University (I.G.C.S.E) United Kingdom, Cambridge, Trinity Ln**

Al Amal Language School verified through British Council with Grade: Very good (90%)

Sep 1989 - Jul 2000



**Orouba Language School (O.L.S)**



**Aramco Approved Skills**

English Language



Arabic Language



French Language



Construction Management (Iron triangle)



Advanced

Safety, Risk & Resource Management



Advanced

Ability working in teams and independent  
Presentation & Communication Skills (Seminars)



Advanced

Microsoft office 2019 (Word, Excel, PowerPoint)



Excellent

Internet Browsing



Excellent

AutoCAD 2019



Very good

Decision Support & Problem solving.



Perfect

Primavera P6 ver 15.4



Very good

Very Hard Smart working, Polite, Punctual,  
Energetic, Patient & Very Accurate.



Perfect

Working for long periods of time Day & Night  
shifts.



Professional

Professional leader & Eager to Learn.



Professional

Managing and matching mentalities of  
different Crews and Nationalities.



Professional

Different Scenarios of Project Phasing  
Constraints Time, Cost, Amount of Work.

