Loay Abu El Nadi

UAE - Abu Dhabi

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**Highly capable Mechanical Engineering Professional, with over 22+ years’ insightful experience in executing major MEP/HVAC Construction Projects, seeking a managerial assignment as……**

MEP Project Manager / MEP Engineering Manager / MEP Construction Manager

(Buildings MEP – Contracting / Consulting) ( Industrial & Plants- Installations / Manufacturing)

Organized, diligent and skilled Mechanical Engineering professional, with extensive experience of **22+** years in handling and administering major projects of MEP/HVAC Design, engineering and construction with reputed establishments in the Middle East countries, including **6** years of experience in construction of water pipe lines and pump stations projects, industrial and thermal power plant projects; proven expertise in executing a wide variety of mechanical installations and systems such as HVAC, Firefighting, Water Supply, Sanitation, Gas Supply, BMS, etc. and managing MEP/HVAC projects of residential and commercial establishments; Well versed in efficiently managing projects through inspirational leadership and excellent organizing skills; 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 large MEP/HVAC projects of High Rise Buildings, Villas, Hotels, Grand Mosque and Trading Complexes etc; always willing 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

* MEP Project Management
* Project Execution & Supervision
* Shop Drawing Preparation & Reviewing
* Material Submittals
* Methods Statement
* MEP Design
* QS & Variation Analysis
* Testing & Commissioning
* Team Leadership
* Water pump stations
* Power Plants and Heavy Industrial projects (installations, piping / steel fabrication and welding works)

Professional Synopsis

* Demonstrated expertise in organizing & devising strategies to execute and deliver high end MEP and HVAC projects for large corporate and commercial establishments.
* High-performing mechanical professional with extensive skills in conceptualizing & creating designs, estimates, budgets and plans of large scale MEP/HVAC 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 MEP/HVAC projects for safe operation and sustained operational effectiveness.
* Exceptional ability to coordinate the MEP/HVAC 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 design of MEP/HVAC 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

Experience Summary

1. **Altorath International Engineering Consultants LLC. Abu Dhabi, UAE**

**Senior Mechanical Resident Engineer: 1-September 2019 and Still**

**Key Responsibilities:**

* Leading a team of five employees and participating in the design, development, execution, supervision, and coordination of all technical aspects of field engineering assignments, including development of plans, schedules, contracts, procedures, and construction methods and systems.
* Reviewing the performance of subcontractors to assure contract compliance, the application of accepted construction technology and standards, and the acceptable standardization of materials and supplies.
* Maintaining first-level quality assurance to confirm that the work carried out is in accordance with the plans, specifications, and industry standards.

**Key Projects:**

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| **Project** | **Construction of School ( South Al Shamkha) , Abu Dhabi** |
| **Duration** | 2 years |
| **PMC** | Musanada |
| **Client**  | Abu Dhabi Government – Ministry of Education |
| **Contractor** | Nael Construct |
| **Value** | 260 Million AED |
| **Scope** | Design and Supervision |
| **Role** | Senior Mech. Resident engineer |
| **Responsibilities** | * Manage, design and supervise All Mechanical Systems works.
* Review, comment and approve the submitted MEP shop drawings, Material submittals, Method statements, Request for information, ITP as per project documents and specifications.
* Prepare and issue MEP design drawings, design changes as per project requirements and studies for related cost impacts.
* Consulting works for Client and project Management, preparing required studies for engineering issues, variations analysis and management consults.
* Manage and supervise inspections, Testing and commissioning of MEP systems installations.
* Conduct / participate all Technical, work shop, and progress meetings with project team.
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1. **Al Sahraa Holding Group, Faris Al Sahraa Consultant, Abu Dhabi, UAE**

 **Mechanical Division Manager: July 2017 – May 2019**

**Key Responsibilities:**

* Leading a team of twenty five employees and participating in the design, development, execution, supervision, and coordination of all technical aspects of field engineering assignments, including development of plans, schedules, contracts, procedures, and construction methods and systems.
* Reviewing the performance of subcontractors to assure contract compliance, the application of accepted construction technology and standards, and the acceptable standardization of materials and supplies.
* Maintaining first-level quality assurance to confirm that the work carried out is in accordance with the plans, specifications, and industry standards.
* Collaborating with construction management to eliminate any hazards associated with the work that may adversely affect the environment or the safety or health of employees.
* Ensuring that personnel of the assigned group engage in safe work practices in compliance with site-specific safety procedures and industry standards.
* Providing resolution for technical engineering problems within the assigned discipline(s); coordinating application of solutions.
* Providing periodical schedule and progress appraisal report to the Management and General Manager.
* Monitoring material procurement and deliveries to ensure timeliness in support of construction activities and schedule within the assigned discipline.

**Key Projects:**

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| **Projects** | **Gantoot Mall & Motel. Alsahraa Village Head Quarter. Asphalt Plant. Al Fujairah Air Port (Roads Storm Water Drainage & Infrastructure)** |
| **Duration** | 2.5 years , 1.5 year and 1 year |
| **PMC** | Al Sahraa Holding Group |
| **Client**  | Al Sahraa Holding Group & Abu Dhabi Municipality. |
| **Contractor** | Al Sahraa Holding Group |
| **Value** | 850 Million, 600 Million, 450 Million & 1.50 Billion AED |
| **Scope** | Management and Execution.  |
| **Role** | Mechanical Devission Manager |
| **Responsibilities** | * Manage , Supervise and design all Mechanical and Electrical works.
* Projects Management, preparing required studies for engineering issues, variations analysis and changes as per project requirements and studies for related cost impacts.
* Manage, supervise erections and installations, testing and commissioning of MEP systems installations.
* Conduct / participate all Technical, work shop, and progress meetings with projects team.
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1. **Surbana Consultants Pte Ltd., Abu Dhabi, UAE**

**Senior Mechanical Resident Engineer: Oct 2010 – Nov 2016**

**Key Responsibilities:**

* Leading a team of ten employees and participating in the design, development, execution, supervision, and coordination of all technical aspects of field engineering assignments, including development of plans, schedules, contracts, procedures, and construction methods and systems.
* Reviewing the performance of subcontractors to assure contract compliance, the application of accepted construction technology and standards, and the acceptable standardization of materials and supplies.
* Maintaining first-level quality assurance to confirm that the work carried out is in accordance with the plans, specifications, and industry standards.
* Collaborating with construction management to eliminate any hazards associated with the work that may adversely affect the environment or the safety or health of employees.
* Ensuring that personnel of the assigned group engage in safe work practices in compliance with site-specific safety procedures and industry standards.
* Reviewing and interpreting discipline design drawings and specifications to ensure current revision level and correct technical execution of the work.
* Providing resolution for technical engineering problems within the assigned discipline(s); coordinating application of solutions.
* Providing periodical schedule and progress appraisal report to the Project Manager.
* Monitoring material procurement and deliveries to ensure timeliness in support of construction activities and schedule within the assigned discipline.
* Ensure that materials received at the project site meet contract documents and specifications and established standards of quality.

**Key Projects:**

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| **Project** | **Bab Al Qasr 5 stars Hotel , Abu Dhabi** |
| **Duration** | 6 years |
| **PMC** | JACOBS |
| **Client**  | EMROC. Emirates & Morocco Trading & General Investment l.C.C. |
| **Contractor** | Nurol LLC  |
| **Value** | 1.7 billion AED |
| **Scope** | Consists of Central 6 No’s centrifugal Chillers, 6000 Total T.R with related chilled water / condensate waterpumps, 6 sets of cooling Towers / HVAC Systems, LPG Central System, Fire Fighting Systems, Steam System, Compressed Air System, Water Features with Swimming Pools, Commercial Kitchens and Central Laundry of two building towers with 38 floors for 5 Star Hotel.  |
| **Role** | Senior Mech. Resident engineer |
| **Responsibilities** | * Manage and Supervise All Mechanical Systems works.
* Review, comment and approve the submitted MEP shop drawings, Material submittals, Method statements, Request for information, ITP as per project documents and specifications.
* Prepare and issue MEP design drawings, design changes as per project requirements and studies for related cost impacts.
* Consulting works for Client and project Management, preparing required studies for engineering issues, variations analysis and management consults.
* Manage and supervise inspections, Testing and commissioning of MEP systems installations.
* Conduct / participate all Technical, work shop, and progress meetings with project team.
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| **Project** | **ADDC Offices At Western Area , Abu Dhabi** |
| **Client**  | Abu Dhabi Distribution Company |
| **Responsibilities** | * Consulting services and design for ADDC offices and building at western area.
* Calculations and design for MEP Systems and services
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1. **Arabian Construction Company (ACC), Abu Dhabi, UAE**

 **Senior Mechanical Engineer: May 2007 - Jul 2010**

**Key Responsibilities**

* Lead a team of employees with the responsibility of managing the construction of MEP and other Mechanical works of the Building.
* Study the scope of work, contract, Technical requirements, specifications and standards to perform the work in compliance to the specified requirements.
* Establish the definition and work scope of items in schedule of rates which is established in accordance with Standard Estimating Guide.
* Obtain approvals of drawings / material submittals from concerned authority / consultants and handing over the marked up drawings as per site conditions to the drawing department.
* Prepare technical specifications and evaluated mechanical process equipment’s and material orderings.
* Manage the Bidding / Commercial & Technical bidding evaluation / Contract Documents for selection of the Subcontractors.
* Control and monitor process of MEP materials and equipment’s ordering and delivering to site stores for installation, as per project schedule.
* Carry out daily Planning of actvities, scheduling of work and prioritized sequential order, allocated the manpower, materials & equipments.
* Follow up with the Vendors for the timely delivery of the materials at site.
* Attend the project review meeting to discuss about the progress of the project and to resolve issues if any.
* Closely monitor and report budget Vs actual cost of the project during construction period through to project completion and prepare cost analysis report.
* Maintain working relationship with the subcontractors, clients, representatives and suppliers.
* Monitor the work done by the subcontractors, preparing commercial queries and evaluated subcontractors documents.
* Coordinate with the Project Manager and ensure that the work carried out is in accordance to the schedule and made the necessary changes with the approval of Project manager
* Maintain 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
* Arrange /Scheduling the required inspections by the Consultant at site upon raising of IR
* Prepare documents, technical hand books and organize training sessions to client representative (engineers, Technicians)

**Key Project:**

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| **Project** | **Sky Towers, Reem Island, Abu Dhabi** |
| **Duration** | 3.5 years |
| **PMC** | Hill International |
| **Client**  | Souroh |
| **Consultant** | Armstrong / Ian Banham |
| **Value** | 2.7 billion AED |
| **Scope** | Consists of District Cooling, Heat Exchangers 10000 Total T.R / HVAC Systems, LPG/ SNG Central Gas System, Fire Fighting Systems, Water Features with Swimming Pools & All Mechanical Systems of high rise buildings (residential, offices and commercial Central Mall) (2 towers with 64, 74 floors and podium). |
| **Role** | Senior Mechanical Engineer |
| **Responsibilities** | Supervision and coordination works of high rising buildings |

**Career Path**

1. **AL Hamed Development & Construction, Dubai UAE**

 **Senior Mechanical Engineer: Aug 2004 - Oct 2006**

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| **Project -1**  | **The Palm Jumeirah, Shoreline Apartments- Dubai** |
| **Duration** | 2.5 years |
| **PMC** | Turner |
| **Client**  | Nakheel |
| **Consultant** | ace (Associated Consultant Engineers) |
| **Value** | 1.1 billion AED |
| **Scope** | Mechanical, Electrical & Plumping Systems of 4 tower buildings.(Residential**)** |
| **Role** | Senior Mech. Engineer |
| **Responsibilities** | * Manage and, supervise all MEP works in 4 towers buildings.(Residential)
* Review coordinate and submission of MEP shop drawings, Method statements, and ITP for consultant's approval, as per project schedule.
* Review, coordinate and submission of MEP Material submittals for consultant's approval as per project schedule.
* Monitor MEP materials and equipments timely delivery to site stores for facilitating the progress of the project as per project schedule.
* Coordinate MEP activities and installation works on site, and control progress of MEP works to be on line with project plan. Manage and supervise all Testing and commissioning activities of MEP systems
* Organize Training of client technical staff (engineers, Technicians) and hand over all MEP systems to the owner after completing all Training procedures.
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| **Project -2** | **Al – Jazera Club, football Stadium Sport halls and 2 buildings - Abu Dhabi** |
| **Duration** | 2 years |
| **PMC** | Hill International |
| **Client**  | Sheikh Shaie Al Hamed Properties |
| **Consultant** | Khateeb And Alami |
| **Value** | 1.2 billion AED |
| **Scope** | Mechanical, Electrical & Plumping Systems of football Stadium with 2 towers for guest and managing offices buildings with 12 floors and Sport halls |
| **Role** | Senior Mech. Engineer |
| **Responsibilities** | * Coordinate MEP activities and installation works on site. Ensure progress of MEP works on line with project plan. Manage and supervise the activities of Testing and commissioning for MEP systems.
* Organize Training of client technical staff (engineers, Technicians) and hand over all MEP systems to the owner after completing all Training procedures.
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1. **Construction Expert Company-CONEX, Amman, Jordan**

**MEP Project Manager: Dec 2002 - Jul 2004**

**Key Responsibilities:**

* Lead a team of employees with the responsibility of executing the MEP construction/installation activities of pump station with capacity of 3000 lit/ sec. for each and reporting to the Project Manager.
* Guide a team to prepare shop drawings, technical data sheets and prepared BOQ and got it approved from Consultant/ Client.
* Coordinate with Planning and project division for preparation of material track logs, delivery schedules & project schedules
* Ensure the materials received at site are in accordance with the quantity & quality requirements stipulated in the contract.
* Monitoring in regular bases the construction operations to confirm they are being carried out in accordance with Operations strategy, standards, policies, procedures and best practices
* Review the method statements, project quality plan, safety plan, schedule and ensured compliance with project objectives.
* Ensure a strict compliance of company’s QA policy & safety regulations at site.
* Conduct site inspections and issue site instructions and NCR’s if any noticed during the site inspection.
* Participate actively in progress, technical and coordination site meetings and brought forward the major issues for deliberation.
* Scrutinize contractor’s correspondence on issues such as variation orders, extension of time and claims etc. and provide necessary advice to the project manager in respect of these points.
* Manage with Testing and commissioning team to facilitate the testing, pre- commissioning and commissioning of all MEP equipment’s and keep the records through tracking sheets based on the contract documents and specification.

**Key Projects**:

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| **Project -1** | **Construction of Dair- Alla -Zai- Amman Water pump stations** |
| **Duration** | 1 year |
| **PMC** | Jordanian Water Authority |
| **Client**  | Jordanian Water Authority |
| **Consultant** | Dar Aloumran |
| **Value** | 500 million $ |
| **Scope** | * Mechanical, Electrical Installations for 2 pumps stations with capacities of 3000 lit/ sec. for each
* Erection of mechanical & electrical equipments for intake pump station (primary Mechanical screen bar, sluice gates, secondary Mechanical screen bar, electro-magnetic flow meters ∅1200mm. Etc.
* Installation of intake Pump Station with 5 vertical pumps type 750 lit/sec each
* Installation of delivery Pump station with 5 centrifugal pumps type 750 lit/sec each
* Erection of surge vessel Volume 60 m3 with installation and welding for pipe ∅1200mm,
* Fabrication and Installation of steel pipe works with erection of (gate, ball and butterfly valves ∅ 600mm, 900mm, 1200mm) for concrete server water tank 750000 m3
* Installation and lying ∅ 1200 mm. carbon steel pipe.
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| **Role** | MEP Project Manager |

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| **Project -2** | **Youniss springs – Arab Potash Plant's Pipe Line and Pump Stations** |
| **Duration** | 1 year |
| **PMC** | Arab Potash Company |
| **Client**  | Arab Potash Company |
| **Value** | 120 million $ |
| **Scope** | * Excavation works and joining / laying for ∅ 22” HDPE pipe line with length of 35 k m
* Construction works and installation for 20 manholes with gate valves, water meters, drain, A.V.Valves..etc.
* Construction works and installation for 2 pump stations along with related accessories and pipe lines ,
 |
| **Role** |  Mechanical Engineer |

**Career Path**

1. **Al Fadel Engineering & Contracting Company, Amman, Jordan**

**MEP Project Manager: Feb 2001 - Dec 2002**

**Key Project:**

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| **Project** | **Construction & Rehabilitation of 5 Stars Hotel Project** |
| **Duration** | 1.5 years |
| **PMC** | C.C.C |
| **Client**  | Crown Plaza |
| **Consultant** | Dar Aloumran |
| **Value** | 15 million $ |
| **Scope** | Mechanical &Electrical works in 5 stars Hotel**.** |
| **Role** | MEP Project Manager |
| **Responsibilities** | * Prepare and submit MEP shop drawings, material submittals and engineering correspondences.
* Manage, supervise and execute the installations of MEP works for electrical systems, HVAC system, central solar system, Clean Agent and firefighting systems, water supply services, rain water / sewage drain, Central Gas System and Steel structures works.
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1. **Sulaiman A. Al-Rajhi Investment Company, Riyadh, Saudi Arabia**

 **HVAC Engineer / Mechanical Engineer: Aug 1998 - Nov 2000**

**Key Responsibilities:**

* Lead the Mechanical and HVAC’s technician site team, manage and supervise all mechanical, plumbing construction activities including coordination with clients, consultants and architects for providing technical inputs.
* Prepare all MEP & HVAC shop drawings with respect to design requirements and contract documents and submit to the consultant / client for review & approval.
* Prepare and submit as built drawings, Method Statements, O&M manuals to consultant for approval.
* Follow up the Installation activities and allocation of man power as per demand during the course of the execution of the project.
* Submit reports of day to day activities to the Engineering Manager.
* Follow up, manage and coordinate with the specialist contractors and sub-contractors Installation activities as per assigned contracts and projects programs and requirements.

**Key Projects**:

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| **Projects** | * **Trading Complex, Alkhobar.**
* **Central Store, Riyadh.**
* **11 Luxury Villas, Riyadh.**
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| **Responsibilities** | Execute all MEP installations for HVAC, Fire Fighting, Water Supply and plumbing systems. |

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| **Projects** | * **Grand Mosque, Buraidah**
* **Trading Complex, Buraidah**
* **Hospital And Clinic Center, Buraidah**
* **Trading Complex Podium& 3 Residential Towers 10 Floors, Makkah**
* **Residential Building 15 Floor, Abha**
 |
| **Responsibilities** | Manage and supervise the works done by specialist contractors and MEP contractors (HVAC works, Fire Fighting works, Electrical works and plumbing services) |

1. **Engineering & Technology Contracting Company, Amman, Jordan**

 **HVAC Engineer, Mechanical Engineer: Mar 1998 –July 1998**

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| **Project -1** | **HVAC works for passenger hall in Amman Civil Airport** |
| **PMC** | Engineering Department |
| **Client**  | Civil Aviation Authority |
| **Consultant** | Engineering Department |
| **Role** | Engineer |
| **Responsibilities** | * Manage supervise and execute Mechanical &Electrical works, HVAC and mechanical Installations (package unites with boilers).
* Prepare and submite HVAC shop drawings, and material submittals for approval.
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| **Project -2** | **HVAC works for electrical rooms at al Fuhais Cement Factory** |
| **PMC** | Engineering Department |
| **Client**  | Jordanian Cement Factories Company |
| **Consultant** | Hattar & Dajani |
| **Role** | Engineer |
| **Responsibilities** | * Manage, supervise and execute Mechanical &Electrical works, HVAC and mechanical Installations (chillers & Air Handling Units).
* Preparing and submitting HVAC shop drawings, and material submittals for approval.
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1. **A.B.B SAE Sadelmi Spa, Aqaba, Jordan**

 **Mechanical Engineer: Jan. 1997 – Feb 1998**

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| **Project** | **AQABA Thermal Power Station Stage II**  |
| **Client**  | Jordanian Electric Authority |
| **Role** | Engineer |
| **Responsibilities** | * Design works, Manage, supervise and execute pipe fabrication and welding works for Aqaba thermal power station – stage 2
* Pipe Fabrication and welding size up to ∅ 1200mm. with several schedules.
* Pipe supports fabrication and manufacturing, pipe size up to ∅1200 mm.
* Managed and build up Steam Generator ( welding and erection works ).
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1. **Universal Steel Fabrication Factory Amman, Jordan**

 **Mechanical Engineer: Oct 1994 – Nov 1996**

* Manage and execute steel fabrication, welding and mechanical maintenance works for heavy industrial projects in the following plants:

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| **King Hussain thermal power station (Zarqa – Jordan)** | * Fabrication and erection works for Fuel Tanks & 3 chimneys ∅ 4.5 m , 67 m height, steel part height 20 m
* Maintenance for steam boilers, burners and related valves, devices and equipment’s.
 |
| **Zarqa Oil and Petrol Refinery (Zarqa – Jordan)** | * Fabrication and manufacturing for pressure vessels, steel pipes and fuel tanks
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| **Arab Potash Company (Dead Sea - Jordan)** | * Fabrication and erection works for 2 jetty steel structures with 4 pump sets & 450 m pipe lines ∅ 900 mm.
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| **Jordan Cement Factories Company (Al Fuhais – Jordan)** | * Fabrication and erection works for steel structure and heavy steel works.
* Installation for Burners, Boilers, Filters, chimneys.
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| **Jordan Cement Factories Company (Al Rashdia– Jordan)** | * Fabrication and erection works for steel structure and heavy steel works
* Fabrication and manufacturing for Crystallizers, agitators, pressure vessels and fuel tanks.
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| **Jordan Natural Resources Authority (Al Resha Gas field– Jordan)** | * Fabrication and erection for Gas pipe lines, Gas plants with related valves, devices and equipment’s.
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1. **Khawaja Engineering and Contracting Office Amman, Jordan**

**Mechanical Engineer: April 1993 – April 1994**

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| **Project** | **EHDLLI Building** |
| **Client**  | Ali Badran Consulting And Engineering Office |
| **Role** | Engineer |
| **Responsibilities** | Managing and executing for Mechanical &Electrical works.-Executing for Mechanical & electrical works in residential building 5 floors with luxury apartments* Manage, supervise and execute Mechanical &Electrical works (Plumbing, Central Heating, Split D/x and Package units Air Conditioning) in residential building 5 floors with luxury apartments
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Credentials

**Education**

* **B.S. Mechanical Engineering, Power and Thermal Machines**

- Aleppo University, Syria - 1993

**Training**

* AutoCAD : engineering drawing via computer - Computech Institute , Amman Jordan - 1993
* Boilers & burners maintenance, theoretical & practical course - Jordan Engineer’s Association - 1993
* Heavy Equipment maintenance- Army forces workshops, Amman-Jordan - 1994.
* Electrical motors operations and control, theoretical & technical course, vocational training Establishment Amman-Jordan: 1994.
* Lathe work, Milling and Metal cutting Technology, theoretical & technical course - vocational training Establishment, Amman, Jordan: 1994
* Steam system network design - Jordan. Engineer’s Association - 1995.
* Design &selection for A/C Units, Jordon. Engineer’s Association - 1997.
* Quality & Safety Management Course, United Arab Emirates - 2015.
* Fire Fighting Systems Design, United Arab Emirates - 2017.
* Green Buildings Course, United Arab Emirates - 2017.

**Computer Skills**

* Excel
* windows
* Autocad
* MEP Syestems calculations and computer design programs

Personal Particulars

* **Date of Birth :** 5th May 1967
* **Languages Known :** Arabic, English
* **Nationality :** Jordanian
* **Passport N0.** : 0378542 Valid upto 11th Feb. 2022
* **Visa :** Employee visa