

Name : **Mohammad Alhusein**
Profession : Educations, Consultancies& Constructions
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ACADEMIC & PROFESSIONAL QUALIFICATIONS

- 2001 PhD Geotechnical Engineering – University Joseph Fourier, Grenoble, France
"Study of the differed soils behaviour and geotechnical works"
- 1997 MSc Civil Engineering / Geotechnical Option – University Joseph Fourier, Grenoble, France
- 1991 BSc Civil/ Structural Engineering – University of Aleppo, Syria

SYNOPSIS

Over twenty six years experience in Civil (Geotechnical) Design, Multi-disciplinary Design Development and Detailing, Design Management, Project Management and Client Interface for a wide range of large scale projects in Syria, UAE, Qatar and KSA.

Project experience covers Structures and Infrastructures Projects.

Responsibilities include the following activities:

- Regulate and coordinate workload
- Encourage collaborative working across our teams and work sectors
- Identify recruitment needs and drive the process to achieve strategy
- Adopt and employ Company systems and processes to ensure a robust approach to technical quality, commercial and financial performance and integration.
- Maintain and monitor a professional and leading edge approach to the application of Health and Safety and CDM in the administration of business duties.
- Collate, analyse and deliver monthly business information including workload forecasting, returns and productivity information.
- In conjunction with other senior staff, win work for and grow the team.
- Ensure the successful exchange of information across the Ground Engineering business and the effective communication of the vision and strategy to staff including organising and leading regular team meetings.
- Champion best in industry excellence with a focus on technical best practice, best people and innovation.
- Act as Project Manager, Project Director and Technical Reviewer on projects as required.

Skills:

- Proven leadership experience – including the ability to lead and motivate teams
- Demonstrable understanding of the relevant markets and client needs
- Previous success as a Project Manager successfully delivering on projects
- Ability to interact well with staff of a range of seniority and experience. Excellent interpersonal and verbal and written communication skills.
- Appreciation of the fundamental requirements of business financial management including monitoring P&L accounts, setting budgets and managing forecasts.
- Excellent knowledge of business and QSSE procedures
- Very Good resource planning & management skills and experience
- Ability to multi task in a fast moving consultancy environment and flexibility to deliver a wide range of tasks according to business needs.
- Strong networking skills to ensure Ground Engineering are at the forefront of opportunities both internally and externally.
- Strong focus on delivery
- Very Good business development skills

PROFESSIONAL EXPERIENCE DETAILS**Lead Geotechnical Engineer**

Altorth International Engineering Consultant October 2017- Till date

Sample of handled Projects:

The proposed main scope of the project is to provide consultancy services to Study Soil Hazards and Sabkhas, Design and Supervise Soil Improvement Works in Different Areas in Emirate of Abu Dhabi.

There have been several incidents of damage and distress for Citizen Houses in Emirate of Abu Dhabi. Citizen houses have faced increased geotechnical problems, such as bearing failure, large total and differential settlements, instability, erosion, and water seepage. The option to deal with problematic geomaterials and geotechnical conditions include: improving geomaterial properties and geotechnical conditions using one or multiple techniques of ground improvement recommended techniques, with full compliance with the project specifications and requirements.

Through this contract, the department intends to provide the required geotechnical works for ground improvement/technical services to plan, and execute miscellaneous geotechnical and improvement works of housing facilities in line with the specifications and engineering analysis reports for the affected houses/lands in Emirate of Abu Dhabi including Abu Dhabi City Island and Mainland, Al- Ain city and Al Dhafra area.

Scope of Works:

The scope of works included a subsurface Geotechnical & Geophysical I Survey, Boreholes, Trial Pits, CPT, laboratory testing (physical, mechanical and chemical testing) and performing geotechnical engineering evaluation and analysis of the collected data to develop the conclusions and recommendations in this geotechnical interpretative report.

The following key geotechnical aspects are outlined in this comprehensive report:

- Description of the site and the Existing Facilities.
- Determine the depth and thickness of the different layers and the soil rock properties.
- Groundwater Conditions.
- Locate and Identify the subsurface potential geo-hazards and weak zones (as voids, fractures, clay, gypsum/salt, etc.)
- Identify the potential settlement of overburden soil into cavities (sink holes) and the collapse of cemented layers through dissolution which can lead to settlement of existing house.
- The potential for cavities into rock layers.
- Conclusions and engineering analysis of investigation findings

- Recommendations for the most suitable improvement technique(s) to stabilize the ground below the affected houses

Resident Engineer

CVTEC Consulting Engineers

<http://www.cvtec.ae/> Jan 2017 – April 2017

Sample of handled Projects:

1- PALM JUMAIRA FIVE STAR HOTEL

1-1. Specific Duties and Responsibilities:

- Supervise the planning, coordination and implementation of construction projects.
- Ensure the projects adhere to all plans and regulations and that safety measures are appropriately taken.
- Ensure staffs are properly trained in the use of all equipment, that all staff have access to and use any safety gear and that the team is reaching the required milestones.
- Evaluate the issue and provide the appropriate solutions when construction crews encounter any technical issues,
- Involving in the design, specifications, and execution of the project.
- Evaluate construction project and determine the best engineering method or practice to accomplish the job.
- Establish an estimated cost and what tools and technologies are appropriate for the job as well as a timeframe for the work to be completed.
- Review of shop drawings, method statements and material submittals during construction

1-2 Scope of Work

- Construction of 512 nos. deep piles.
- Carry out all QA/ QC tests

Head of Geotechnical and Material Departments

Terraserch Gulf September 2014- August 2017

Sample of handled Projects:

1- The Mohammad Bin Zayed ROADS AND INFRASTRUCTURE WORKS (90 km existing internal roads), (STAGE2) ZONE D AND G (TENDER REF 34/2016) for Musanada.

1.1 - Scope of Works:

- Drilling total of twenty three (23Nos.) sampling boreholes and twenty three (23 Nos) testing boreholes, in-situ testing and sampling of disturbed and undisturbed samples.
- Carrying out twenty three (23 nos.) Dynamic Cone Penetrometer tests.
- Carrying out twenty three (23 nos.) Coring into the Asphalts.
- Carrying out physical, mechanical and chemical laboratory tests.
- Performing engineering analysis of field & laboratory findings.
- Developing conclusions & recommendations for design & construction.
- Reporting.

1.2- Purpose of Study

The purpose of the study is to determine the surface and subsurface conditions at the proposed project site and the physical, mechanical, chemical properties of the investigated ground in order to identify the geotechnical anomalies which caused the Structure & infrastructure geotechnical failure and to recommend a methodology for assessing the client & the specialist contractor fixing the problem at Roads and Infrastructure Works in Mohammed Bin Zayed (MBZ) City, and thereby, quantify their potential hazard for the existing Structure and infrastructure nearby the damaged area.

2- NAKHEEL , JEBEL ALI RESIDENTIAL COMMUNITY PROJECT AT PLOT NO. WFBD-D-001 – SCTOR: HESSYAN FIRST IN DUBAI

2.1 - Scope of Works:

- Drilling total of Thirty (30Nos.), in-situ testing and sampling of disturbed and undisturbed samples.
- Carrying out physical, mechanical and chemical laboratory tests.
- Performing engineering analysis of field & laboratory findings.
- Developing conclusions & recommendations for design & construction.
- Reporting.

2.2 PROJECT DESCRIPTION

Jebel Ali Community is divided into the following components:

1. Twelve residential building, each residential building consists;
 - a. Podium consists of mechanical spaces in the basement floor, Retail units in the ground floors, Multi-storey car park in ground, first and second floors in addition to residential units and Gym on the roof deck.
 - b. Residential Towers including typical residential unit's. There are 3 types of units: one bedroom unit, two bedroom unit and three bedroom units.
2. Community Buildings consists of;
 - a. One Grand Mosque and Two small mosques.
 - b. Four Club Houses.
3. Utility Buildings consists of;
 - a. District Chiller plant
 - b. Electrical Sub-station
 - c. Underground tanks
4. Landscape design accommodates;
 - a. Six Playgrounds (Football, Tennis and Basketball)
 - b. Four Swimming pools.
 - c. Cycling lanes and Pedestrian walk ways.
5. External on grade Car parking

2.3 Purpose of Study

The purpose of the study is to determine the surface and subsurface conditions at the proposed project site and the physical, mechanical, chemical, electrical and thermal properties of the investigated ground in order to provide the structural engineer with sufficient information for the design of the most suitable, economical & safe foundation.

3-THE SAADIYAT BEACH VILLAS (SB-65) AT THE SAADIYAT ISLAND IN ABU DHABI FOR DSA / TDIC

3.1 - Scope of Works:

- Drilling total of eighty one on-land (81Nos.), in-situ testing and sampling of disturbed and undisturbed samples.
- Installing four piezometers (04 Nos.).
- Carrying out physical, mechanical and chemical laboratory tests.
- Performing engineering analysis of field & laboratory findings.
- Developing conclusions & recommendations for design & construction.
- Reporting

3.2 PROJECT DESCRIPTION

The proposed project is Mixed Used Development as follows:

The SB-65 development consists of a combination of four, five and six bedroom townhouses with supporting facilities like a coounity centre, multiuse games area, and public swimming pool and open parkland.

3.3 Purpose of Study

The purpose of the study is to determine the surface and subsurface conditions at the proposed project site and the physical, mechanical, chemical, electrical and thermal properties of the investigated ground in order to provide the structural engineer with sufficient information for the design of the most suitable, economical & safe foundation.

4- The Heart of Europe (THOE): THOE is Nestled amidst the archipelago of Dubai's The World, this breathtaking resort spans a cluster of six islands, stretching just 4km from the city's coastline.

Each island within The Heart of Europe takes inspiration from some of Europe's most captivating locations. This is a development that merges the continent's magnificent history of culture, art and traditions into one unparalleled island destination – truly bridging the gap between the West and the East.

The World project is nine-kilometres wide and seven kilometres-long. It covers an area of 931 hectares and will add 232km to Dubai's natural 67km of beachfront.

The islands range from 150,000 to 450,000 square feet in size. The project is divided into private estate island zones, commercial zones, which have low/mid/high density resorts, hubs for ferry transfer points and public visitor areas.

4.1 - Scope of Works:

Terrasearch Gulf has been engaged by THOE to provide a geotechnical investigation. The purpose of this geotechnical investigation is to quantify ground settlement for a design basis earthquake event to Trakhees Requirements, and to suggest suitable Bearing Capacity for the foundation of the proposed structures.

The studies present the results of a geotechnical investigation together with an analysis of the soil properties, and a discussion of the following issues:

- Preparing the project specifications, and the the CPT-based performance lines required to satisfy the project target minimum and average relative densities.
- Plots Post CPTs against target design line ($q_c = 8 \text{ MPa}$).
- Liquefaction analysis complying with the guidelines, calculating the factor of safety against liquefaction and studying if the soil is susceptible to liquefaction or not after performing the densification to be submitted after completion of the soil improvement works.
- Settlement analysis for each CPT location for a bearing capacity of 150 kN/m² at one meter below the post compaction location ground level with a settlement less than 25 mm to be achieved throughout the improved area using Schmertmann (1974) and/ or Priebe (1995).
- Plate load test confirming the proposed bearing capacity with the expected settlement.

5- The ENTISAR Tower: Entisar Tower is a 535.85m, 129 storey tower located on two prime parcels on Sheikh Zayed Road between the 51 story Radisson Royal Hotel and the 56 story Park Place Towers. The client's aspiration is to develop an internationally recognized landmark that would be a symbol for Dubai for the new millennium.

5.1 - Scope of Works

The client had appointed me as advisor to him on the project to take care of the following points:

- Responsible for geotechnical assessment including enabling works design review, geotechnical instrumentation, monitoring and interpretation, technical meeting attendance and presentation etc.
- Plans and conducts independent work within a global business unit requiring judgment in the evaluation, selection, application and adaptation of engineering techniques, procedures and criteria. Devises new approaches to solving problems.
- Broad working knowledge of precedents in the specialty area, the principles and practices of related technical areas and of coordinating work with other technical disciplines.
- Plans and coordinates independent work requiring judgment and experience in the application and substantial adaptation of engineering techniques.

- Devises new approaches to technical problems.
- Coordinates technical issues with other departments on projects including constructability requirements and reviews.
- Provides technical direction for specific tasks and assigns work to subordinate senior engineers, engineers, designers, drafters or project sub-groups.
- Attending meetings with approval authorities for the shoring, piling and foundation design approvals
- Review of the tender returns on shoring and piling works and make comments and recommendations
- Attending meetings with the relevant subcontractors
- Establishes and maintains quality and accuracy standards. Identify and classify underlying site soils and provide detailed reports outlining the cause and origin of the damages to clients.
- To have client interaction on a regular basis. Capable of detailed geotechnical analyses for foundation recommendations, settlement, consolidation theory, slope stability, earthwork evaluations, retaining structures and report preparation.
- Provide geotechnical consultancy services for all aspects of ground works and applies my expertise to all types of civil engineering structures such as foundations and retaining walls deploying a variety of methods for ground improvement, installation of vertical in-ground barriers, soil stabilisation, piling excavation of cuttings and placement of embankments.
- Help to set-up Enabling, Shoring, Excavation, Ground Engineering and Piling works.
- Carrying out geotechnical analysis for example soil stability calculations, assessing data requirements for the design of retaining walls; pile and soil spring recommendations to be used in ETABS analyses through review of the SI report and soil structure interaction by carrying out FE analysis with suitable computer packages such as PLAXIS.

Specific Duties and Responsibilities/Scope of Work:

- Provide project implementation expertise, leadership and guidance to project managers and engineers.
- Structure and develop the project management & engineering teams, and review its performance.
- Identify and deploy an optimized, efficient and working organization for project lifecycle and delivery.
- Ensure adherence to the different processes for Project Management as well as Engineering.
- Ensure close follow-up of financial and performance indicators for project implementation (for project and engineering management).
- Ensure all Automation projects objectives are met.
- Ensure compliance with the different Operational processes and quality requirements. Improve, adapt and optimize the processes.
- Conduct the project kick-offs, reviews, and closeouts.
- Foster the culture of Contract Management with the Project Management team.
- Manage and ensure proper anticipation of the workload. Allocate the PMs to the different projects, and launch recruitment when required.
- Coach, mentor, train and support the PMs in Project Management.
- Provide support and expertise to projects on Terms and Conditions with customers, partners, and subcontractors.
- Be responsible for all project recovery plan of project scopes, budgets, and schedules to achieve customer satisfaction, on-time quality deliveries, maintain or improve margins, and ensure positive cash flows.
- Represent the company to the customer and conducts negotiations when required.
- Manage Customer Satisfactions.
- Be responsible for timely delivery and fulfilment of obligations, reviewing client correspondence and maintaining an audit trail, identifying risks and proposing mitigation strategies and ensuring that all changes to scope are subject to rigorous change control including cash management objectives.
- Interface with and advise customers, project members, and technical groups on all technical, project, and business issues.
- Responsible for the requirement & inventory of tools & assets.
- Other duties may be assigned to meet business needs.

Geotechnical Team Leader

ArteliaGroupe (Sogreah Gulf) September 2013- August 2014

<http://www.arteliagroup.com>

Type of Project: Bluewaters Island Construction

Bluewater Island is a new development project to be built off the [Jumeirah Beach](#) Residence coastline, near [Dubai Marina](#), in [Dubai, United Arab Emirates](#).

Scope of Employer's Contract:

The Scope of works is to achieve the following:

- Reclaimed Land With a surface area of 321,600 square meter,
- Shore Protection works,
- Beach Construction,
- Ground Improvement Works,
- QA tests.

Specific Duties and Responsibilities/Scope of Work:

- Responsible for Co-ordination, planning and supervision of vibro Compaction works, geotechnical assessment including bearing capacity and settlement calculation, slope stability analysis, monitoring and interpretation, supervision of soil and material laboratory accredited to ISO 17025, preparation of geotechnical reports, technical meeting attendance and presentation.
- Plans and conducts independent work within a global business unit requiring judgment in the evaluation, selection, application and adaptation of engineering techniques, procedures and criteria. Devises new approaches to solving problems.
- Broad working knowledge of precedents in the specialty area, the principles and practices of related technical areas and of coordinating work with other technical disciplines.
- Plans and coordinates independent work requiring judgment and experience in the application and substantial adaptation of engineering techniques.
- Devises new approaches to technical problems.
- Knowledgeable of and performs standard discipline engineering activities on projects of relatively small size and complexity within the business line with minimal technical oversight.
- Coordinates technical issues with other departments on projects including constructability requirements and reviews.
- Provides technical direction for specific tasks and assigns work to subordinate senior engineers, engineers, designers, drafters or project sub-groups.
- Broad knowledge of precedents in the industry.
- Attending meetings with the relevant subcontractors

Summary of Executed Works:

The works to be executed is the soil improvement works of the reclaimed material by Vibro-compaction technique on reclaimed material.

The Project is located at Dubai Marina, Dubai. It involves the Soil Improvement of the reclaimed materials and post, pre quality tests.

The area of approximately 321,600 m² were backfilled with reclamation material consistent with project specs. The volume of reclaimed material to be improved is around 4,500,000 m³.

Senior Project Manager

ACTS (Advanced Construction Technologies Services) January 2013- September 2013

<http://www.acts-int.com/>

Type of Project: Inner Doha Resewerage Implementation Strategy (IDRIS)

Scope of Employer's Contract: Geotechnical & Environmental investigations

Specific Duties and Responsibilities/Scope of Work:

- Provide project implementation expertise, leadership and guidance to project managers and engineers.
- Structure and develop the project management & engineering teams, and review its performance.
- Identify and deploy an optimized, efficient and working organization for project lifecycle and delivery.
- Ensure adherence to the different processes for Project Management as well as Engineering.
- Ensure close follow-up of financial and performance indicators for project implementation (for project and engineering management).
- Ensure all Automation projects objectives are met.
- Ensure compliance with the different Operational processes and quality requirements. Improve, adapt and optimize the processes.
- Conduct the project kick-offs, reviews, and closeouts.
- Foster the culture of Contract Management with the Project Management team.
- Manage and ensure proper anticipation of the workload. Allocate the PMs to the different projects, and launch recruitment when required.
- Coach, mentor, train and support the PMs in Project Management.
- Provide support and expertise to projects on Terms and Conditions with customers, partners, and subcontractors.
- Be responsible for some project recovery plan of project scope, budget, and schedule to achieve customer satisfaction, on-time quality deliveries, maintain or improve margins, and ensure positive cash flows.
- Represent the company to the customer and conducts negotiations when required.
- Manage Customer Satisfaction.
- Be responsible for timely delivery and fulfilment of obligations, reviewing client correspondence and maintaining an audit trail, identifying risks and proposing mitigation strategies and ensuring that all changes to scope are subject to rigorous change control including cash management objectives.
- Interface with and advise customers, project members, and technical groups on all technical, project, and business issues.
- Responsible for the requirement & inventory of tools & assets.
- Other duties may be assigned to meet business needs.

Summary of Executed Works:

The general scope of work comprises the performance of specified geotechnical investigations and Environmental samples (foul sewage and sludge sampling) associated with the planned IDRIS facilities. The planned facilities include:

- a- Approximately 75km of lateral interceptor sewers
- b- Approximately 35km of deep main trunk sewer
- c- New Terminal Pump Station (TPS)
- d- New Doha South Sewage Treatment Works (STW)
- e- Approximately 70km of Treated Sewage Effluent (TSE) return pipelines

Project Section/Location	Investigation Required
Interceptor Sewers (IS) – Doha, Wakrah, Mesaieed	171 boreholes 11m to 57m deep. In-situ testing to include double packer permeability tests. Installation of monitoring wells.
Treated Sewage Effluent (TSE) Lines – Mesaieed to Doha	34 boreholes 10m deep, including installation of monitoring wells
Environmental boreholes and sampling around Doha area	19 boreholes 20m deep, including the installation of monitoring wells.
Foul sewage and sludge sampling	Existing Doha South STW and Industrial Area STW

Technical Director/ Projects Manager

Huta Foundation Works LTD October 2011- December 2012

<http://hutagroup.com/>

Type of Project: King Abdul-Aziz Airport Expansion, Kingdom Tower- Jeddah

Scope of Employer's Contract: Piling, Foundation and retaining wall construction

Specific Duties and Responsibilities/Scope of Work:

- Provide project implementation expertise, leadership and guidance to project managers and engineers.
- Structure and develop the project management & engineering teams, and review its performance.
- Identify and deploy an optimized, efficient and working organization for project lifecycle and delivery.
- Ensure adherence to the different processes for Project Management as well as Engineering.
- Ensure close follow-up of financial and performance indicators for project implementation (for project and engineering management).
- Ensure all Automation projects objectives are met.
- Ensure compliance with the different Operational processes and quality requirements. Improve, adapt and optimize the processes.
- Conduct the project kickoffs, reviews, and closeouts.
- Foster the culture of Contract Management with the Project Management team.
- Manage and ensure proper anticipation of the workload. Allocate the PMs to the different projects, and launch recruitment when required.
- Coach, mentor, train and support the PMs in Project Management.
- Provide support and expertise to projects on Terms and Conditions with customers, partners, and subcontractors.
- Be responsible for some project recovery plan of project scope, budget, and schedule to achieve customer satisfaction, on-time quality deliveries, maintain or improve margins, and ensure positive cash flows.
- Represent the company to the customer and conducts negotiations when required.
- Manage Customer Satisfaction.
- Provide tender support and analysis.
- Be responsible for timely delivery and fulfilment of obligations, reviewing client correspondence and maintaining an audit trail, identifying risks and proposing mitigation strategies and ensuring that all changes to scope are subject to rigorous change control including cash management objectives.
- Interface with and advise customers, project members, and technical groups on all technical, project, and business issues.
- Responsible for the requirement & inventory of tools & assets.
- Other duties may be assigned to meet business needs.

Summary of Executed Works:**1- E200-ARTERIAL TUNNEL 4 (SHORING WORKS SUMMARY)**

- 1-1 Area of Shoring -SECANT PILES WALL (35,387.00 m2)
- 1-2 Area of Shoring -DIAPHRAGM WALL (23,027.60 m2)

2- F500-RAILWAY STATION (Piling Works)

- 2-1 430 Nos. deep piles (1200mm dia)- Total drilling depth 15,317.20 lm

3- F500-RAILWAY STATION (SHORING WORKS-Secant Piles)

- 3-1 Area of Shoring **16,624.50 m2**

4- C120- Load Centre B (SHORING WORKS-Secant Piles)

- 4-1 Area of Shoring **3,235.7 m2**

5- C130- Load Centre C (SHORING WORKS-Secant Piles)

- 5-1 Area of Shoring **3,937 m2**

6- F200- Viaduct(Piling Works)

6-1 480 Nos. deep piles (1200mm dia)- Total drilling depth 13,440 lm

7- E100- Elevated Roads and Bridges (Piling Works)

Depth Range (m)	≤ 30	30 < L ≤ 40	40 < L ≤ 50	50 < L ≤ 60	60 < L ≤ 70	70 < L ≤ 80	Total
No. Of Piles	16	552	1,500	292	24	8	2,392
Total Length lm	418.40	19,988.60	67,933.12	15,471.20	1,515.56	581.58	105,908

8- Passenger Terminal Building (PTB)- (SHORING WORKS-Secant Piles)

8-1 F120 PTB Wings Zone A, Area of Shoring **16,750 m2**

8-2 F120 PTB Wings Zone A (A3-A4), Area of Shoring **6,300 m2**

8-3F120 PTB Wings Zone A, Area of Shoring **7,313 m2**

8-4F120 PTB Wings Zone B, Area of Shoring **8,690 m2**

8-5 F120 PTB Wings Zone C, Area of Shoring **7,450 m2**

8.6F120 PTB Wings Zone H, Area of Shoring **430 m2**

Geotechnical Director and Company Managing Director

Super Arc Engineering Construction(July /2009 – 2011)

Establishing the company from the stages of planning and construction. Select and brought all required equipment for running geotechnical investigation and piling/ shoring constructions, material (soil and concrete) and chemical divisions. Recruitment of all staff technical and administrative for the required position in the company.

Holding all administrative, financial and technical issues.Possessing of excellent management experience and a proven ability of successful business development, consistently achieving significant year-on-year growth.Accomplished in training and motivating all involved staff in work to provide a high level of customer service. Believing that good team leadership and a hands-on approach to management brings increased standards and profits.

Responsible for preliminary and final execution designs for various projects, including estimation, detailed method statements for construction of foundations, earth works, soil improvement and retaining structures.

In this capacity, having full exposure to the contracts from negotiation till finalisation, design and method statements, submittal, clarifications, and final approvals from the consultants, client and related authorities.

Handled and involved for foundation design and estimations for all sorts of structures viz. Commercial & residential Buildings, sea ports, jetties, Airports, Bridges and Highways, Tunnels, Power and Desalination plants, High voltage Transmission Lines and substations, Underground car Parks, Transmission and communication towers, Factories and Industrial Units, Sewage water & utilities shafts, Silos and storage Tanks.

Principal Geotechnical Engineer

Atkins Middle East, Dubai UAE (June /2006 – July /2009)

<http://www.middle-east.atkinsglobal.com/>

- Responsible for Co-ordination, planning and supervision of soil investigation work, geotechnical assessment including bearing capacity and settlement calculation, deep and shallow foundation design, slope stability analysis, design of slope retaining or stabilization structures, geotechnical instrumentation, monitoring and interpretation, supervision of soil and material laboratory accredited to ISO 17025, preparation of geotechnical reports, technical meeting attendance and presentation, training of technical staff etc.
- Plans and conducts independent work within a global business unit requiring judgment in the evaluation, selection, application and adaptation of engineering techniques, procedures and criteria. Devises new approaches to solving problems.
- Broad working knowledge of precedents in the specialty area, the principles and practices of related technical areas and of coordinating work with other technical disciplines.
- Plans and coordinates independent work requiring judgment and experience in the application and substantial adaptation of engineering techniques.
- Devises new approaches to technical problems.
- Knowledgeable of and performs standard discipline engineering activities on projects of relatively small size and complexity within the business line with minimal technical oversight.
- Coordinates technical issues with other departments on projects including constructability requirements and reviews.
- Provides technical direction for specific tasks and assigns work to subordinate senior engineers, engineers, designers, drafters or project sub-groups.
- Broad knowledge of precedents in the industry.
- Setting up all the site investigation requirements of all the projects
- Review all the SI tenders and make recommendations
- Carrying out surprise visits to SI projects in progress to check on their performance
- Review and comment on the SI reports received after the SI work is carried out
- Assisting the structural engineers in the geotechnical parameters for the pile/foundation design and spring coefficients for the superstructure calculations
- Attending meetings with approval authorities for the shoring, piling and foundation design approvals
- Review of the tender returns on shoring and piling works and make comments and recommendations
- Attending meetings with the relevant subcontractors
- Carrying out surprise visits on site for the work done by the relevant subcontractors
- Providing support for Atkins offices in the region.
- To provide the primary point of contact and meet the technical ground engineering needs of the Atkins structural and civil engineering team. In addition to support the wider Ground Engineering Group on large scale or complex geotechnical engineering projects undertaken across the Middle East.
- Travel to different offices of Atkins in the Middle East as part of my work.
- Review Atkins existing specifications relevant to the geotechnical aspects of the work
- Lead and direct geotechnical projects (multiple and individual) with overall project management responsibility including planning, developing, coordinating, and directing the completion of assigned geotechnical projects.
- Review geotechnical engineering project proposals. Monitoring schedules to assure projects are on time and within budget projections.
- Establishes and maintains quality and accuracy standards. Identify and classify underlying site soils and provide detailed reports outlining the cause and origin of the damages to clients.
- To have client interaction on a regular basis. Capable of detailed geotechnical analyses for foundation recommendations, settlement, consolidation theory, slope stability, earthwork evaluations, retaining structures and report preparation.
- Provide geotechnical consultancy services for all aspects of ground works and applies my expertise to all types of civil engineering structures such as foundations and retaining walls deploying a variety of methods for ground improvement, installation of vertical in-ground barriers, soil stabilisation, piling excavation of cuttings and placement of embankments.
- Provide high quality cost effective foundation options with complimentary remedial programmes for a full range of impacted sites.
- Help to set-up Enabling, Shoring, Excavation, Ground Engineering and Piling works.

- Capable of carrying out geotechnical analysis for example soil stability calculations, assessing data requirements for the design of retaining walls; pile and soil spring recommendations to be used in ETABS analyses through review of the SI report and soil structure interaction by carrying out FE analysis with suitable computer packages such as PLAXIS.

List of some Executed Projects:

1- IPIC (International Petroleum Investment Corporation) Tower (Typical Sample)

The project is a high rise tower and low rise towers in Abu Dhabi. The high rise tower consists of 2 basements, ground, mezzanine and 36 stories, with height of 185m. While the smaller towers are ranged between 2 to 5 stories. The two level basements cover the entire plot area.

1.1 Scope of works:

- Soil investigation:
Drilling of 19 nos. boreholes (40 to 80 m depth), in-situ testing and sampling
Analysis, conclusions and reporting
- **Enabling Works**
Area of Shoring -SECANT PILES WALL (9,562.00 m2)
Excavation and disposal of 540,339 m3
Dewatering of the whole site
595Nos. deep piles (900mm dia)
147 Nos. deep piles (1000mm dia)
113 Nos. deep piles (1200mm dia)
Pile Head cutting

Testing:

Pilot Piles: 11 nos. tests non instrumented and 4 nos. tests instrumented.
Static working pile tests: 10 nos. tests, and 2 nos. O-Cell tests
Dynamic tests: 44 nos. tests
Integrity tests: 855 nos. tests
Sonic Tests: 44 nos. tests

- 2- Al SOWA Island Infrastructures and Bridges- Abu Dhabi
- 3- Al Durrah Tower Enabling Works- Dubai
- 4- Beacon School Enabling Works- Abu Dhabi
- 5- Office & Residential Tower at Plot No. C154-C67 Enabling Works- Abu Dhabi
- 6- Central Market Enabling Works- Abu Dhabi
- 7- Dynesty Tower Enabling Works- Abu Dhabi (Al Reem Island)
- 8- Etihad terminal facilities Enabling Works- Abu Dhabi Airport
- 9- Falcon Tower Enabling Works- Abu Dhabi (Al Reem Island)
- 10- Highland Resort Villas W-51, Enabling Works- Abu Dhabi
- 11- MARINA TULIP TOWER Enabling Works- Abu Dhabi (Al Reem Island)
- 12- Marriott Hotel Enabling Works- Abu Dhabi (Al Ain)
- 13- Shooting club Hotel Enabling Works- Abu Dhabi (Khalifa City)
- 14- Split Tower Enabling Works- Abu Dhabi (Al Reem Island)
- 15- First Gulf Bank Extension Enabling Works- Abu Dhabi
- 16- P17 Mixed Use Development & Multi-storey Carpark - Enabling Works- Dubai
- 17- Hilton Hotel Enabling Works at RAK
- 18- Bridgeway Hotel Enabling Works- Abu Dhabi
- 19- IBIS Suit Hotels EnablingWorks- Al Rigga Road-Dubai
- 20- PIER 8, Residential DevelopmentEnabling Works- Dubai Marina
- 21- Emerald Place GroupEnabling Works- Dubai (The Palm Jumeirah)
- 22- IFA (MIRAGE MILLE PROJECT) Residential Development Enabling Works and Soil Improvement – Dubai (Palm Jumeirah Trunk)

- 23- Multi-storey Residential Development on Plot Nos. 9GG & 9HH Enabling Works -District 9 Dubai Marina
- 24- Beacon Education School Enabling Works- Dubai- Green Community
- 25- Al Shafar Development Enabling Works- Dubai- Business Bay
- 26- Burj Dubai Mall Lake Hotel Enabling Works- Dubai
- 27- Trump International Hotel and Tower Enabling Works- Dubai (The Palm Jumeirah)
- 28- Palm Gateway Towers Enabling Works- Dubai (the Palm Jumeirah)
- 29- Mina Seyahi Expansion Enabling Works- Dubai
- 30- Iris Amber Development on Plot G001 Enabling Works- Dubai (Cultural Village)
- 31- DSEC Commercial Tower Enabling Works- Dubai
- 32- Taaleem Flagship School and Campus Enabling Works- Dubai
- 33- Dubai Promenade Enabling Works- Dubai
- 34- Dubai Marina 9M-41 Storey Residential Tower Enabling Works- Dubai
- 35- Emirates Retail Link Enabling Works- Dubai
- 36- Dubai International Financial Centre (DIFC) Enabling Works- Dubai
- 37- Jumeirah Lake Towers-Enabling Works- Dubai (SABA)

Principal Geotechnical / Material Engineer

Arab Centre for Engineering Studies, Abu Dhabi, UAE (2003-June/2006)

<http://www.aces-int.com/>

- Responsible for projects from inception to completion to include: Initial quotation; Planning of works; Project management; Technical review and quality assurance of report; interpretive reporting; invoicing for works and Ensuring client satisfaction and good client care. The range of the work ensures that staff enjoys a varied workload that gives job satisfaction not normally associated with some larger consultancies. An ability to assess the most commercially viable and practical solution to a clients problems is critical.
- Planning and supervision of field geotechnical investigations including drilling of boreholes, excavation of test pits, soil sampling and testing, etc...
- To be responsible for geotechnical assignments, acting as package or project manager.
- Geotechnical reports write-up for varies types of projects.
- Study of landslides and slope stability projects.
- Reconnaissance, drilling and sampling supervision, and field testing (especially pressuremeter, High Pressure Dilatometer, Packer (Lugeon) Permeability Test and Pumping Test).
- Geotechnical design of piles and in-situ assessment for piles during drilling.
 - Consultancy for pile works construction
 - Consultancy for pile load testing.
- Manage and follow up of Projects.
- Day to day, operating matters in the Laboratory.
- Operating matters of Geotechnical investigation.
- Preparation the program of tests as required by the clients.
- Prepare reports and analysis of tests results in accordance with the standard specifications or project requirements/specifications.
- Discuss the test result and suggest recommendation to the clients, if necessary.
- Evaluating / Investigation of the existing Building/Structures:
 - Conduct field and laboratory investigation in the structure.
 - Performing engineering analysis of the findings.
 - Develop conclusion regarding the present state of the structures, cause and extends of damage.
 - Developing recommendation to aid in adopting the appropriate repair options and protection of the structures.

List of some Executed Projects:

- 1- GEOTECHNICAL INVESTIGATION FOR CONSTRUCTION OF SHEIKH ZAYED BRIDGE FOR ABU DHABI ISLAND, CONTRACT 3 ABU DHABI, UAE
- 2- GEOTECHNICAL INVESTIGATION FOR Proposed ADNOC Filling Station at plot no.46/D, Al Dhaid
- 3- PRESSUREMETER TESTING FOR 450 HOUSES IN AL QUO'A FOR HH SHEIKH ZAYED BIN SULTAN AL NAHYAN GROUND CONSOLIDATION WORKS
- 4- SITE INVESTIGATION FOR CENTRAL MARKET SITE AND RESIDENTIAL ROJECT AT SECTOR E1 & E2 ABU DHABI, UAE
- 5- GEOTECHNICAL INVESTIGATION FOR THE PROPOSED LANDMARK TOWER IN ABU DHABI, UAE
- 6- GEOTECHNICAL INVESTIGATION FOR MIX DEVELOPMENT NEAR CARREFOUR ABU DHABI, UAE
- 7- GEOTECHNICAL INVESTIGATION FOR HIGH RISE TOWER BUILDING FOR H.H. SHK. HAMDAN BIN ZAYED AL NAHYAN AT PLOT No. C-7, SECTOR E-4/1 ABU DHABI, UAE
- 8- WATER TABLE DEFINITION FORUPGRADE OF BU HASA PRODUCTION FACILITIES, UNIT "G" & "F + D" DEVELOPMENT BU HASA, (ADCO)ABU DHABI, UAE
- 9- GEOTECHNICAL INVESTIGATION FOR PROPOSED LABOR CAMPAT PLOTS 75 & 76, SECTOR ME-7MUSSAFAH, ABU DHABI, UAE
- 10- SITE INVESTIGATION FOR CONTRACT No. 751 SEWERAGE OF AL ADLAH AL ADLAH, ABU DHABI, UAE
- 11- LOGGING OF TRENCHES & TESTING FOR ADSS CONTRACT No. 418 SEWERAGE AND STORM WATER PROJECT FOR EAST EXTENSION AT KHALIFA TOWN "A" - CIVIL WORKS ABU DHABI, UAE
- 12- GEOTECHNICAL INVESTIGATION FOR JEBEL DHANNA TANK FARM FACILITY UPGRADE JEBEL DHANNA, ABU DHABI, UAE
- 13- SITE INVESTIGATION FOR ROYAL HOUSE FURNISHED APARTMENT AT PLOT C-11, SECTOR E-14 ABU DHABI, UAE
- 14- SITE INVESTIGATION FOR CONTRACT No. D-3517 SUPPLY & INSTALLATION OF NEW D.I. WATER PIPELINE (400mm DIA.) AT SECTOR W-62, ABU DHABI, UAE.
- 15- SITE INVESTIGATION FOR BB-564 (RIG NDC-24) AT HABSHAN (BAB), ABU DHABI, UAE
- 16- SITE INVESTIGATION FORTHE ROUTES OF DY-056 (RIG NDC-33)AT DABBIYA, ABU DHABI, UAE
- 17- GEOTECHNICAL INVESTIGATION FORTERMINALS AND PIPELINES FOR INTER-REFINERIES - AL AIN RECEIPT TERMINALAL AIN, UAE
- 18- GEOTECHNICAL INVESTIGATION FORTERMINALS AND PIPELINES FOR INTER-REFINERIES – ADIA RECEIPT STATIONABU DHABI, UAE
- 19- GEOTECHNICAL INVESTIGATION FOR TERMINALS AND PIPELINES FOR INTER-REFINERIES - ADNOC-FOD AREA IN UMM AL NAR, ABU DHABI, UAE
- 20- GEOTECHNICAL INVESTIGATION FOR TERMINALS AND PIPELINES FOR INTER-REFINERIES – RUWAIS REFINERY RUWAIS, ABU DHABI, UAE
- 21- GEOTECHNICAL INVESTIGATION FOR TERMINALS AND PIPELINES FOR INTER-REFINERIES - PIPELINE ROUTE RUWAIS TO UMM AL NAR ABU DHABI, UAE
- 22- GEOTECHNICAL INVESTIGATION FOR TERMINALS AND PIPELINES FOR INTER-REFINERIES - MUSSAFAH DEPOT MUSSAFAH, ABU DHABI, UAE
- 23- SITE INVESTIGATION FOR MULTI-STOREY BUILDING FOR H. H. SHEIKH SAIF BIN ZAYED AL NAHYAN AT PLOT NO. C-7, SECTOR E-9/02 ABU DHABI, UAE
- 24- SITE INVESTIGATION FORSUNRISE ENGLISH PRIVATE SCHOOLAT PLOT NO. 18, SECTOR ME-09MUSSAFAH, ABU DHABI, UAE

- 25- GEOTECHNICAL INVESTIGATION FOR LPG TRAIN 4 SITE CONTRACT No. CON - MAC - 020 – 2002 DAS ISLAND, ABU DHABI, UAE
- 26- GEOTECHNICAL INVESTIGATION FOR HUWAILA FIELD DEVELOPMENT PROJECT HUWAILA / BU HASA, ABU DHABI, UAE
- 27- SITE INVESTIGATION FOR INTERNAL ROADS IN MOAZAZ CONTRACT NO. (974-2-2) MOAZAZ, ABU DHABI, UAE
- 28- SITE INVESTIGATION FOR INTERNAL ROADS IN AL FALAH CONTRACT NO. (974-2-2) AL FALAH, ABU DHABI, UAE
- 29- ADSS CONTRACT No. 160/3 MISCELLANEOUS GROUND INVESTIGATION PHASE 3
- 30- SITE INVESTIGATION FOR ADSS CONTRACT NO. 186/3 EMERGENCY BYPASSES TO MAIN SEWAGE PUMPING STATIONS MUSSAFAH, ABU DHABI
- 31- GEOTECHNICAL INVESTIGATION FOR STABILITY OF CUT SLOPES AT NADIA 132/11kV SUBSTATION (CONTACT NO.: N-00-0112) AT ABU DHABI INT'L. AIRPORT ABU DHABI, UAE
- 32- GEOTECHNICAL INVESTIGATION FOR TERMINALS AND PIPELINES FOR INTER-REFINERIES - MUSSAFAH DEPOT MUSSAFAH, ABU DHABI, UAE
- 33- GEOTECHNICAL INVESTIGATION FOR ICAD 1 Area (Abu Dhabi Industrial City):

Assistant Professor in Civil Engineering

Institute of Technology at Reunion University & Joseph Fourier University, Grenoble, France (2001 – 2003)
Research Assistant

Responsibilities:

Teach and assist in different courses and laboratories which are Geotechnical Engineering, Foundation Engineering, Introduction to Engineering, Statics, Statistics, Traffic, Transportation, Individual Projects, Senior Design Projects (I&II) Geotechnical and Material Laboratories. Reviewing some Journal papers related to different topics in geotechnical and foundation engineering. Supervision of laboratories, sessions and lectures preparation, grading of exams and laboratory reports. Courses assessment was made to evaluate the achievement of objectives among the students and getting their honest opinion to improve and enhance courses and labs. So that, students achievement could be raised by developing teaching and transferring information techniques to them. Give some projects concentrate on the practical applications and very close to some real cases in France. Also, a comprehensive plan was made to extend the lab experiments to cover some essential field tests that considered the soul of practical applications for most of these projects.

1997-01

- Research and modelling of the Geotechnical works by the method of the Finites Elements (Modelling and back Analysis).
- Perform engineering analyses including numerical modelling. Laboratory of Soils, Solids and Structures. Grenoble – France.

1998-99

- Lecturer in Civil Engineering in the Joseph Fourier University, Grenoble, France (practical work of soil mechanics and part time teaching in the following undergraduate courses: Soil mechanics, Reinforced concrete design and strength of materials).

1996-97

- Modelling and back Analysis of the geotechnical works by finites elements. Laboratory of Soils, Solids and Structures. Grenoble – France

1995-96

- Formation in French language in the Stendhal university of Grenoble-France

Civil Engineer

Ministry of Irrigations, Syria (1992 – 1996)

- manage the geotechnical component of projects;
- engineering design and reporting;
- advice to multidisciplinary projects;
- Supervision of Dam Embankment. Experience in bulk earthworks, filling and compaction. Geophysical/ Geotechnical investigation experience.
- Dam foundation remedial & consolidation works using chemical grouting & Tubes-A-Manchettes (Wales). Site reestablishment. Grouting & consolidation of chalk dissolution Features & Coal Mining Works for residential & commercial Properties.
- Conceptual/Feasibility phase design.
- Embankment design, Slope stability.
- Open Pit stability studies and design.
- Supervises all activities including design, preparing tender specifications and documents and monitoring all facilities maintenance and documents and monitoring all facilities maintenance and requirements.
- Supervises construction works, and guides contractor for the construction.
- Prepares tender, documents, specifications, conditions of contract, bills of quantities, and cost estimates.
- Prepares facilities expense budget, and forecasts annual expense budget.
- Prepares daily service request status from the database, and prepares daily and monthly reports.
- Project management and technical input to reports;
- Delivering projects within schedule and budget;
- Co-ordination of activities of all project team members, ensuring developments and modifications are communicated throughout the team;
- Interaction with clients in support of the successful delivery of projects;
- Assist with marketing / bid support and development of the Land Development Team;
- Prepare and review technical reports;
- Definition of the calls and selection of the suppliers;
- Preparation of reports for feasibility, concept, preliminary and detail design of geotechnical projects.
- Lead the team responsible for planning and detail design of geotechnical projects;
- Performs other similar or related duties as and when assigned by Head of Projects Unit.
- Technical follow-up of the building sites (Ministry of irrigations - Syria).

Some Projects in Dam Constructions carried out under my Participation since 1991 till 1998							
Dam Name	City	Capacity (m.m ³)	Lake Size (1000m ²)	Height (m)	Length (m)	Completion date	Purpose
Salhab	Hama	8.00	3260	14.5	1405.0	1992	Irrigation
Kastoon	Hama	27.00	3500	20.0	1850	1992	Irrigation& energy
Tal Altout	Hama	2.40	480	12.4	580	1994	Filtration
Aldwaissat	Idlib	3.5	328	34	300	1995	Irrigation
Alokrok	Idlib	0.60	86	22	200	1995	Alimentation
Afamia-1	Hama	27.54	1870	46.31	443	1998	Irrigation& energy

Research

Aleppo University, Syria (1990 – 1992)

- Studying and realization of works in reinforced concrete (Aleppo University - Syria).

Courses and Training:

2008-09	Quality Management training course (TQM) given by ws Atkins Quality Manager. Held at Abu Dhabi from 30th October to 2nd November.
2008-09	Leadership Throughout given by PeoplePlus. Held at Abu Dhabi from 22nd May to 25th May.
2008-09	Introduction to Quality Assurance Seminar given by ws Atkins Quality Assurance Manager. Held in Abu Dhabi 25 November.
2007-08	Convincing Argumentation given by CBS. Held at Dubai from 15th October to 20th October.
2007-08	Powerful Presentations given by CBS. Held at Dubai from 16th January to 22 nd January.
2000-01	Practical formation in Civil Engineering «The experimental errors and the errors of calculation – modelling» (3 days).
2000-01	Practical formation in Geotechnics «Natural Risk in Mountain». (2 days).
1998-99-00	Practical formation in Continuum Mechanics « Constitutive Modelling of Geomaterials ». (9 days).
1999-00	Practical course in the management of projects (26 hours).
1999-00	Course in Geotechnics at the Central school of the Bridges and Roadway in Paris (3 days).
1995-96	French Language in the Stendhal university of Grenoble-France.