

Zeina Kalash

SENIOR CIVIL ENGINEER

Profession	Civil Engineer
Gender	Female
Date of Birth	1978
Years of Experience	19 years
Nationality	Lebanese
Membership in Professional Societies	<ul style="list-style-type: none">• A Member of the Lebanese Order of Engineers and Architectures: ID No. 24824• A Member of the Beirut Arab University's Alumni since 2000.
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Key Qualifications

Zeina Kalash is a Civil Engineer with an experience of 13 years in Highway and Road Design Domain (Khatib and Alami). Her experience includes all related aspects such as design of the Horizontal and Vertical Alignments using the professional civil 3D program, as well as project production from Setting Out, to Cross-sections, Leveling, Grading and Quality Assurance and Quality Control (QA/QC), Signing and Marking with Proper Circulations along with Parking Design and Control... Moreover, she is familiar with the Hydraulic structures and Storm water Calculations; she has experience of about 6 years working in that domain (Spectrum Engineering Consultant). Zeina Is familiar with several international codes and standards such as AASHTO, MOT, SORB-Iraqi, QHDM , ICAO and IATA standards as well as the Internal audits of the company which are based on an understanding of Quality Assurance of Management and engineering disciplines and procedures in conformance with the ISO 9001:2000 Standard and the Quality Management System (QMS).

Education

1995-2000	Bachelor Degree in the Civil Engineering from the Beirut Arab University
1993- 1995	Lebanese Baccalaureate Certificate in Mathematics from the Iman Pilot School-Beirut

Additional Training

- AutoCAD, (2019).
- Excel (2016) Spread Sheets for Engineering Design & Calculation.

- Microsoft Word (2016), Familiar with Writing Reports & Letters.
- Autodesk Civil 3D (2018).
- Familiar with some other programs such as: Microsoft Project, Power Point.

Professional Experience

2007 - 2019: Khatib & Alami, Beirut

Role: Senior CIVIL Engineer—Roads and Highways

2019-: Damascus Hills Development

Client: Damascus- Syria

The work consists of Site grading and all related road design works and leveling for the proposed master plan development of Damascus Hills project located in Dimas, Syria with an area of approximate 200Hectar (2,000,000m2) , the new development will be exploited with high quality mixed-use facilities including residential, commercial, community facility... this site is located In Dimas mountain about 20km North West of Damascus and close to Syrian-Lebanese border.

2019-: Branded serviced apartments- Abha

Client: Almutlaq real estate investment – Abha- KSA

The work consists of Design Site grading and all related road design works and levels.

2019-Salang Pass & Tunnel assessment and design of rehabilitation works

Client: Ministry of Public Works-Afghanistan

The Work consist of upgrading the Afghanistan's one of the viable land route linking Kabul to Northern Afghanistan via the Salang Tunnel and connecting road, known as the Salang Corridor that traverses the Hindu Kush mountain range with peaks as high as 7,708m (25,289ft). including profile review and sections of the existing route to be upgraded. The road corridor was built in 1964. It is the major route that supply majority of commodities and essential goods to Kabul from the north bordering countries.

2019- Khamis Mushayt Phase 2

Client: Saudi Ministry of Housing – Saudi Arabia

The work consists of Design Site grading and all related road design works and levels for the development of 500,000 housing units aiming to meet the growing housing needs in various of the Kingdom.

2018 - BLOM Bank Headquarters

Client: Blom Bank - Lebanon

The work consists of Design Site grading and all related road design works and levels with proper signing and marking.

2018- Basateen Tripoli -Infrastructure works for the project of combining and sorting the orchards of Tripoli

Client: Municipality of Tripoli - Lebanon

The work consists of consultancy services for detailed infrastructure works for Basateen Tripoli master plan , including road design works (Alignments, profiles, grading levels, intersections) with all related quantities.

2018- Beirut Municipality Multi-Storey Car Park in Achrafieh

Client: Municipality of Beirut- Lebanon

The work consists of Design Site grading and all related road design works and levels for the multi-story car park in achrafieh.

2018-Consultancy Services for Design and Construction Supervision of Reinforcement of Al Sharqiyah Transmission System

Client: Directorate General of Projects, Sultanate of Oman

The work consists of Design Site grading and all related road design works and levels for all Water Transmission plant.

2018-Design Consultancy Services for Additional Buildigns - MOI HQ - Jeddah – KSA

Client: Ministry of Interior- Saudi Arabia

The work consists of Design Site grading and all related road design works and levels.

2017- Rehabilitations of Akkar Schools (Akkar Atika School-El Douseh Vocations school-Mechmech Vocational School-Ein El Dahab Vocations school – Akroum Vocations school – Fneyik Vocations school

Client: Akkar Lebanon

The work consists of Design Site grading and all related road design works and levels for all Vocational Schools is Akkar.

2017 – Doha Bank- Qatar

Client: QATAR

The project scope consists of design of internal roads. The detailed design included layout, grading, setting out plans, profiles, typical cross sections & details, cross sections, signing and pavement marking plans, for about 300 km of roads of different classifications, in addition to their detailed BOQ.

2017 - MF171105 RPO5 Prophet Mosque Expansion Project - KSA

Client: Ministry of Finance

Description: The site project area is around 2.5 million sq.m. that includes 32 km of different class of roads. In addition, two metro lines are crossing the project area where one underground 4 levels metro station is situated.

Role: Verifying and auditing the quantities related to road items in the main BOQ received from the Client such as earthworks, pavement, sign & road marking and other incidental item

2017 – MF171103 Master Plan of 25 sq.km. in Al Madinah Al Mounawarah - KSA

Client: Ministry of Finance

The project scope consists of design audit for 25 million sq.m. of lands including 6 million sq.m. of roads with review of the relevant detailed BOQ. The detailed design included layout, grading, setting out plans, profiles, typical cross section & details, cross sections each 20m, signing and pavement marking plans, for about 300 km of roads of different classifications, in addition to their detailed BOQ.

2016-2017: Consultancy Design Services for Water Transmission System from Sohar to Al Dhahirah Governorate.

Client: DIRECTORATE GENERAL OF PROJECTS, SULTANATE OF OMAN

The work consists of Design Site grading and all related road design works and levels for all Water Transmission plant.

2016: Bisha Water Master Plan, Water Transmission Lines to Dahou Center & Water wells & distribution Center.

Client: Saudi Arabia

The work consists of Grading and all related road design works and levels for all Water Transmission plant.

2014 - 2016: New College of Law and New College of Education

Client: Qatar University, Qatar

The Project consists of providing comprehensive services for conceptual design, preliminary design, detailed design and construction supervision for New College of Law and New College of Education Buildings with gender segregated entrances for Male and Female students.

The work consists of providing all necessary design for the traffic circulations inside the parkings with signing and marking along with surrounding roads designs and grading for the site plan.

2014 - JE1413-MALEHA & BANI ZEEB WATER TRANSMISSION SYSTEMS,

Client: Assir General Water Directorate – MEW, Saudi Arabia

Work consist of grading for site including all plan, profiles, sections, details, pavement, drainage, traffic control design.

Design and tender documents preparation for 2 water transmission systems for Maleha & Bani Zeeb centers.

The work consists of Grading and all related road design works and levels for all Water Transmission plant at Ya'ara, Khaybar Al Janoub and Maddah.

2013: BY0912-M.E.A. Training Center – Beirut,

Client: M.E.A.

Work comprises the preparation of new alignment for the access road of the MEA training center, including all related works such as profile, grading, sections, drainage and details.

2013: Ardah Airport Upgrading- Lebanon,

Client: Ministry of Interior (MOI) Border Guard.

The project consists of Prepare the Studies, design and drawings for the Airfield Upgrading as per the terms of reference for Ardah Airport - Eastern Province

The works consist of providing all necessary design for the runway upgrading and clearways, with the Lead-in taxi and all needed geometric design works.

2013: Polyclinic & Radio / TV Station Buildings - Lebanon,

Client: Mr. Christian Comair

The project consists of 2 buildings, one shall be a Polyclinic and the other should encompass the congregation Radio and Television Operations and office as well as a small printing press, on a site area of 10,640m²

The work consists of providing all necessary design for the traffic circulations inside the parkings with signing and marking along with surrounding roads designs and grading for the site plan.

2013: Rotana Residence- Lebanon,

Client: IHIC (International Hotel Investment Company s.a.l.)

The project is 3 separate residential blocks 11 stories high, with 3 basement floors on a 4,000 m² of land

The works consist of providing all necessary design for the traffic circulations inside the parkings with signing and marking along with surrounding roads designs.

2013: Family Mall- Duhok - North Iraq,

Client: Dareen Group- North Iraq

The project is a Mall of 105,000 m² that consists of one basement for parking and utilities, and three above ground levels with public circulations, leasable area. With indoor games park, food court, cinemas & tenants.

The work consists of providing all necessary design for the traffic circulations inside the parkings with signing and marking along with surrounding roads designs.

2012-2013: New Roumieh Village

Client: INTRA Investment Company-Lebanon

Conceptual Master Plan study related to the development of a land in Roumieh along the El-Metn Highway Corridor.

The Work consists of preparing all surrounding and linking roads to access the Golf course and residential and commercial areas in the project.

2012-2014: Design of Commercial Street in Al Khor,

Ashghal-Qatar

Development of Roads and Infrastructure for Commercial Street in Al Khor at Qatar North Area, intended to upgrade an existing roadway for the benefit of residents and commercial businesses alike.

Works consist of providing Design engineering services including the preparation and the review of all related drawings and reports.

2012-2014: GEC QN008 Design of Access Road to Al Khor Beach,

Ashghal-Qatar

Access Road to Al Khor Beach, which is intended to provide the residents of Al Khor area, and beyond, with a paved access to an existing beach park development, located to the east side of Al Khor urban area.

Work consists of providing engineering consultancy services including preparation for all needed documents and reports.

2012-2013: Muhayil Sai'da Sawalha,

MOT- Saudi Arabia

Work comprises the preparation of new alignment with Profile which is a major shift away from an existing and currently under construction stretches, to avoid additional bridges.

2012: Traffic Study North Jeddah Bulk Plant Complex,

Saudi Aramco- Saudi Arabia

Work comprises the preparation of a traffic study for the North Jeddah Bulk Plant Complex (NJBPC). The objective of this study is to develop alternative future access to their Quarters as a result of the construction of the Haramain High Speed Rail in the Medan of the existing Haramain expressway.

2011-2012: Media City , Erbil Media City - North Iraq,

Geometric Design of surrounding and connecting Roads with all appropriate signing and marking needed for A Mixed Use development on a 250,000 m2 LOT. Basic project components are a 5-star Hotel & Mall (excluded from contract), Media Buildings, Office Studios, Residential Apartment Buildings, Commercial Walkway, Typical Villas & complete Site Infrastructure Works.

2009-2012: Haramain High Speed Rail - Phase I , Al Rajhi Alliance Group- Saudi Arabia,

Preliminary and final design of the high speed rail project joining holy Makkah and Madinah passing by Jeddah city.

Project length: 445Km.

Duties: the study of the road network affected by crossing of the high speed rail.

2011: Traffic Study and design to improve the Haramain Road Intersection with GAC Street.

Jeddah Municipality - Saudi Arabia

Work consisted of preparing the Grading design for all intersections between Rughamah Street, Gac Street and the Haramain Road.

2011: Chama Bridge - Erbil – Kurdistan,

General Directorate of Roads and Bridges - IRAQ

Geometric & Structural Design of a high standard bridge over the Razan river near the village of Chama in Northern Kurdistan, along with the design of the approaching roads joining the bridge with the existing road network in order to ensure easy vehicular movement and to connect the Southern sector with the Northern parts of Kurdistan.

2010-2011: Air Strip at KJO,

Saudi Aramco-Saudi Arabia

The Project consists of upgrading of Al Khafji Airport in order to allow for the safe operations of the Gulfstream Aircraft G550 and for night operations. The Scope of Works includes the construction of new runway, clearways, and Lead-in taxi with all needed geometric design works.

2007: Water Transmission Line from Raghwa Intersection to Ya'ara, Khaybar Al Janoub and Maddah

General Water Directorate in Assir Region

Grading and all related road design works and levels for all Water Transmission plant at Ya'ara, Khaybar Al Janoub and Maddah.

2007: Extension of Sajer Road southwards to meet Riyadh -Taif Highway ,

Ministry of Transportation (K.S.A),

The scope of work included the design of road vertical and horizontal alignments, traffic control and safety devices for a previously prepared study of a 2x3-lane divided highway of 120km length with seven interchanges and five animal crossings.

2007-2011: Lattakia-Ariha Highway,

Public Establishment for Road Communications (Syria)

During Construction phase, work was related to the Updating of a feasibility study, modifications, Grading of interchanges & amendments of existing design support to the construction of motorway connecting Lattakia – Tartous Highway with the existing Highway leading to Ariha City. The project length is 99 km. Over 85 bridges, viaducts, underpasses, overpasses and retaining walls along the road. All types of interchanges were provided at main crossings (diamond, full cloverleaf, and trumpet) in addition to signage, marking and incidental works.

2007: King Saud University City Traffic And Parking Study,

Kingdom Of Saudi Arabia - Ministry of High Education,

Work consists of improvements and modifications of existing main ring road and all its radial roads, amendments of existing intersections and conversion of some to traffic signalized intersections, parking layouts revisions with new parking layout.

2007-2009: V5-PLACE VERDUN-MIXED USE DEVELOPMENT-Beirut-Lebanon,

Horizon – Management

The work consisted of designing the proper circulation and ramps leveling as well, that accommodated the project entry and egress with the main roads surrounding the project at Verdun Street, in addition to the proper signing and marking study of the project at three levels floors with ground level floor and five basements floors.

2007: INTERNATIONAL TOWER, May 2007

DUBAI-UAE , First Capital Investment Holding

The work consisted of designing the proper circulation that accommodated the project entry and egress, in addition to the proper signing and marking study of the project that consists of four basement floors, ground floor plan, and ten floor plans.

2007: EMPOWER HEADQUARTER BUILDING,

EMIRATES CENTRAL COOLING SYSTEMS CORPORATION , DUBAI-UAE

The work consisted of designing the proper circulation that accommodates the project entry and egress, in addition to the proper signing and marking study of the project that consists of three basement floors.

2007: MIXED USE COMPLEX DEVELOPMENT MASTER PLAN ERBIL-IRAQ ,

EMIRE WORLD-BUILDING AND FUTURE

The work comprised of establishing the whole plan consisting of a 854.50m length round about road with four intersecting roads of a total 1477.20m lengths, a whole design was made from laying out, setting out, horizontal and vertical alignments, cross sections with quantity surveying project.

2007: MULTI PURPOSE USE COMPLEX IN AI MADIANAH AL MOUNAWARH-BENNI NAJJAR

The work consisted of defining the proper circulation on the main plan and finding the needed leveling values at the buildings limits as required.

2000 - 2007: Spectrum Engineering Consultant s.a.r.l., Beirut

Role: CIVIL Engineer—Road Drainage Engineer

The work in the following projects comprises the below workings tasks:

- Preliminary Design of the road including all the needed decree and expropriation limits of the road and the surrounding residential areas.
- The Final design of the whole road project including the studying of all drainage and hydraulic infrastructure needed for the road including preparation of drain data, studying the discharge quantities, design of channels and culverts, with all drainage details and plans with the coordination of the Mechanical and the Electrical Engineers contributing in the road design.
- The calculations of all project quantities (reinforced and plain concrete, steel) needed for the Bill of Quantity documents.

❖ **Construction of South Beirut Coastal Sewer collectors and pumping stations, Naame-Damour-Khaldeh-Ghadir**, Year 2006

Client: Islamic Bank- Lebanon

❖ **Al Ehsaa Roads in Saudia Arabia**, Year 2006

Client: Ehsaa Baladiah

❖ **Rehabilitation & Widening of Maalaka-Wadi El Aarayech-Kaa El Rim road, L= 11Km**, Year 2005

Client: Ministry of Republic Works & Transportation

❖ **Preliminary Conceptual Design, Boubyan Sea Port project., Length of road:33Km**, Year 2005

Client: State of Kuwait-Ministry of Public Works-Mega Project Agency

❖ **Quality of Central Laboratory**, Year 2005

Erbil-Kurdistan Region-Iraq , Client: Ministry of Health

❖ **Nahr Ibrahim-Al Aazraod** , Client: **Council for Development and Reconstruction** , Year 2004

❖ **Shmestar Vocational school**, Client: **Council for Development and Reconstruction** , Year 2004

❖ **Deir Al Ahmar school** , Client: **Council for Development and Reconstruction** , Year 2004

❖ **Jbab El Homor-Hermel road** , Client: **Council for Development and Reconstruction**, Year 2004

❖ **Rehabilitation of Sath El Bir, Bab El Tabaneh-Tripoli-Lebanon** Year 2004

Client: Prime minister Cabinet-Central Fund for the Displaced

- ❖ **Saida-Room-Jezzine road**, Year 2003
- ❖ **El Mineh- Mafrak Aazki road, Length of road:** 7608 m , Year 2003
- ❖ **Kabiet-Kommamin road, Length of road:** 8825 m, Year 2002
- ❖ **Halba-Akar Al Atika road, Length of road:** 5050 m, Year 2002
- ❖ **Al Shakdoun-Al Kammoua road, Length of road:** 8128 m, Year 2002
Client: **Ministry of Public Works and Transportation**
- ❖ **The rehabilitation of Tabarja-Chekka Highway**, Year 2002
Client: **Council for Development and Reconstruction,**
- ❖ **Dalafa Bridge**, Client: **Ministry of Public Works and Transportation**, Year 2002
- ❖ **Rehabilitation of Bab El Tabbaneh road, Length of road:** Length=8825 m, Year 2003
Client: **Ministry of Public Works and Transportation**
- ❖ **Bier Hassan school**, Year 2001
Client: **Council for Development and Reconstruction**
- ❖ **Maintenance programs of Beirut and South roads**, Length of road: about 19 km ,Year 2001
- ❖
- ❖ **National roads project Marjayoun road, Length of road**, Length= 30 km , Year 2001
- ❖ **Al Majdal-Al Sin road**, Length: 3,904 m , Year 2001
- ❖ **Al Arida-Al Masoudie road**, Length of road: 10,495 m , Year 2001
Client: **Ministry of Public Works and Transportation**
- ❖ **The rehabilitation of Tabarja-Chekka Highway** , Client: **Council for Development and Reconstruction**, Year 2000
- ❖ **Project of Rehabilitation and Maintenance of roads** , Client: **P.I.U.** Length of road: about 80 km , Year 1999. Office Training as an assistant engineer in the civil works beside the traffic counts of the roads from the data collected from the site engineers..

N.B.: All Roads are designed according the AASHTO standards.

Achievement in Fort s.a.r.l.
Engineering-Trading-Contracting.

Hamra Mosque July 98 – September 98

Training as an assistant site engineer on the project of constructing an additional 8th floor over the existing building after reinforcing and supporting the existing old construction of the official building following the Hamra Mosque project...

Languages

	Reading	Speaking	Writing
Arabic	Native Language	Native Language	Native Language
English	Very Good	Very Good	Very Good

JULY 2019