

**Dr. Eng. Murad Kalaldehy (DSc Tech) Architect & Urban Designer**

**A Jordanian Born in Amman on 27 June 1962**

الدكتور المهندس مراد الكلالده/ مستشار العمارة والتصميم الحضري



## Portfolio

An accomplished engineer and project manager who has headed up several projects for large international clients. A skilled presenter and keynote speaker on housing and urban development. A distinguished university lecturer and author of several engineering books. Practical experience in Architectural and urban design, construction, project management, and urban planning. Hold the highest professional rank from the Jordanian Engineers Association "Consultant in Architecture and Urban Design." Founder and President of the Jordanian Forum for Environmental Planning.

Areas of Expertise include:

- *Regional & Urban Planning.*
- *Teaching & Training.*
- *Transport & Road Planning.*
- *Microsoft Office Suite, AutoCAD*
- *Environmental Planning*
- *Housing Expert*
- *Building Regulations & Codes*
- *Decentralization, Municipal Affairs*
- *Construction Supervision, FIDIC*
- *City Infrastructure*

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## 1. General Information

- Dr. Eng. Murad Kalaldehy (DSc Tech) Architect & Urban Designer
- A Jordanian Born in Amman on 27 June 1962 الدكتور المهندس مراد الكلالده/ مستشار العمارة والتصميم الحضري
- High Diploma from HAB-Weimar (BAUHAUS) University, Germany 1987.
- Doctorate Certificate in Architecture (Doctor of Technical Sciences- DSc Tech) from the Faculty of Architecture at Graz Technical University in Austria in 2002. الدكتوراه التقنية بالعمارة من النمسا



Fig. 1 Equation Document issued by the Jordanian Ministry of Higher Education certifying that the certificates held by Murad Farhan Khalil Kalaldehy are equivalent to the third university degree (Doctorate) in Architecture and Urban Planning.

## 2. Architectural Design Experience الخبرة بالتصميم المعماري

### 2.1 Junior Architect أعمال تصميم معماري ابتدائية

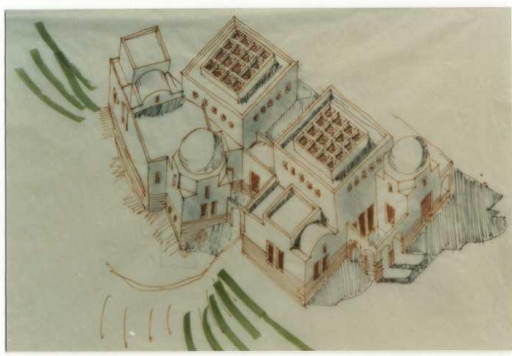


Fig. 2: Conceptual Design for a private villa in Saudi Arabian, by Murad Kalaldehy

Year: 1987-1988

I worked as a junior architect at Shbilat-Badran Associates, which is now known as Dar Al-Omran. During my time there, I was responsible for creating detailed drawings for the Qatar Grand Mosque project, which had won an international competition in a previous phase. Additionally, under the guidance of Architect Rasem Badran, I contributed to the preliminary designs of several villas.



## 2.2 Canteen and Dormitory **مطعم ومنامات عسكرية**

Year: 1988-1990

Location: Jordan, Amman Workshops

Client: Jordan Armed Forces

While serving in the military, I supervised the construction of a 2,100 m<sup>2</sup> cafeteria and dormitory for soldiers. My work included managing demolition, overseeing the construction of partition walls, floors, glass-block walls, and paint.

Part-time work at **Jafar Tokan** Architects & Engineers doing free-hand drawings for Jubilee School. **بمكتب رسومات يدوية لمشروع مدرسة اليوبيل جعفر طوقان**

## 2.3 Villa J. Bedour **فيلا بدور**

Client Name: Dr. Jamal Bedour  
Family residence. Year: 1990 design, 1991 construction.  
Location: Dabouq, Amman, Jordan **دابوق**

The property comprises two ground floor apartments and a basement for services, covering a total area of 500 square meters. I served as both the designer and supervisor during construction.

Consultant: Murad Kalaldehy Engineering Office.



Fig. 3 Villa Bedour, First Villa drawn and designed by Murad Kalaldehy first Engineering Office opened in 1990.

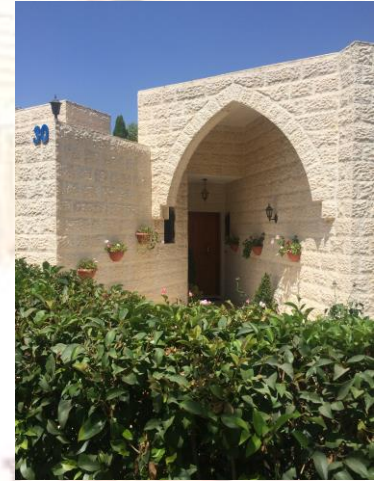


Fig. 4 Villa Bedour, Second Apartment Entrance.

## 2.4 Villa T. Kalaldehy **فيلا كلالده**

Taleb Kalaldehy's Family building is situated in Khalda, Amman, Jordan. It was designed by M. Kalaldehy in 1991 and built in phases until 2002 under the same designer's supervision. The building consists of one apartment per floor, with a total area of 1200 m<sup>2</sup>. The project was consulted by Sunna Alaqaq Engineering Office "SACO".

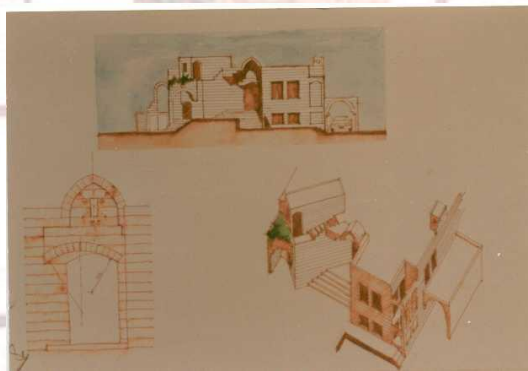


Fig. 5 Villa Kalaldehy, Front Elevation showing main and secondary entrances.

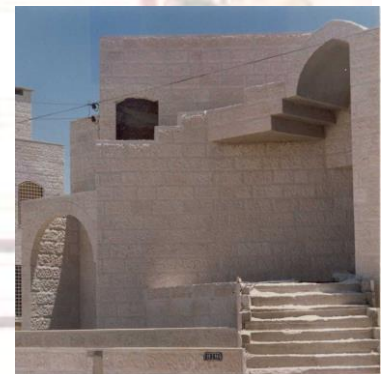


Fig. 6 Villa Kalaldehy, Front Elevation showing main and secondary entrances.



## 2.5 Villa Dalabieh فيلا الدلابيح

Client: Eng. Riyad Dalabieh, Family residence.

Year: Designed in 1992 and built in 1993.

Location: Jordan, Amman- Dabouq

Main project features: Area 550 m<sup>2</sup> divided by one residence at the First-Floor level and an Apartment and for services at Ground floor.

Positions held: Designer and Supervisor during construction.

Consultant: Murad Kalaldehy Engineering Office

[www.kalaldehy.com](http://www.kalaldehy.com)



Fig. 7 Conceptual Design drawn in watercolor by Murad Kalaldehy.

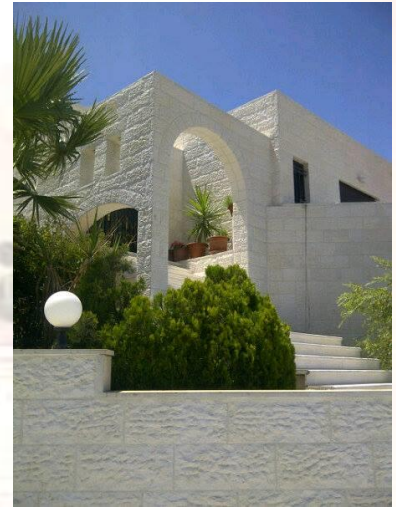


Fig. 8 Villa Dalabieh Entrance.

## 2.6 Villa Gibreen فيلا جبرين

Client: Mr. Tayseer Gibreen, Family residence

Year: Designed in 1992 and built in 1993.

Location: Jordan, Amman- Marj Al-Hammam. مرج الحمام

Main project features: Area 500 m<sup>2</sup> divided into two apartments at the Ground Floor level and a basement apartment and services.

Positions held: Designer and Supervisor during construction.

Consultant: Murad Kalaldehy Engineering Office

[www.kalaldehy.com](http://www.kalaldehy.com)



Fig. 9 The conceptual design shows basement, front, and back elevations drawn in watercolor by Murad Kalaldehy.



Fig. 10 Conceptual Design showing Ground Floor.



## 2.7 Villa Mkahhal فيلا مكحل

Client: Mr. Abed Al-Fattah Mkahhal,  
Family residence

Year: Designed in 1993 and built  
1993-1995.

Location: Jordan, Amman- Marj Al-  
hammam. مرج الحمام

The main project features an area of  
1200m<sup>2</sup> divided into three apartments  
at the ground and first-floor level and  
a basement for services.

Positions held: Designer and  
Supervisor during construction.

Consultant: Murad Kalaldehy  
Engineering Office.

[www.kalaldehy.com](http://www.kalaldehy.com)



Fig. 11 Villa Model



Fig. 12 Stepped stone Arch



Fig. 13 Villa Construction at  
Basement level.

## 2.8 Villa Sbouh فيلا السبول

Client: Mr. Saleh Sbouh, Family  
residence

Year: Designed in 1995 and built in  
1995.

Location: Jordan, Amman-  
Tareq

The main project features: Area 700  
m<sup>2</sup> placed at the

Ground Floor level and a basement  
for services.

Positions held: Designer and  
Supervisor during construction.

Consultant: Murad Kalaldehy  
Engineering Office

[www.kalaldehy.com](http://www.kalaldehy.com)



Fig. 14 The conceptual design shows the Ground Floor Plan drawn in  
watercolor by Murad Kalaldehy.



## 2.9 Civil Works of X-Ray Department at Luzmila Hospital تنفيذ تركيب أجهزة طبية متخصصة

Client: Luzmila Hospital

Year: 1994.

Location: Jordan, Amman- Jabal Al-Weibdeh

Designed and executed works for the CT-Scan & X-ray department. Work included leading walls and fixation radiation-resistant windows.

Positions held: Designer and contractor as per Siemens instructions.

Fig. 15 Inserting the 2-ton x-ray machine through the hospital window and installing it in the designated place.



## 2.10 Expansion of Zarqa Free Zone توسعة المنطقة الحرة بالزرقاء

Client: Free Zone Corporation

Year: Designed in 1995 and built in 1996.

Location: Jordan, Amman- Zarqa

The Murad Kalaldehy Engineering Office won the first public tender to design the expansion of the existing free zone towards the east. The new development was dedicated to truck inspection bays, weighing stations, and administrative buildings.

Positions held: Designer and preparation of tender documents and BOQs.



Fig. 16 Project location shown on Google Earth

## 2.11 Al-Fanar Office Building عمارة الفانار

Client: Al-Fanar Printing Press

Year: Designed in 1995, and built in 1996.

Location: Jordan, Amman- Queen Rania Al-Abdullah Street.

Office Building and the printing press was extended to a multi-story building and then converted into a Hotel.

Positions held: Designer.

Consultant: Murad Kalaldehy Engineering Office & Waleed Dajani Engineering office [www.kalaldehy.com](http://www.kalaldehy.com)



## 2.12 Architectural Competition, 3-Star Hotel at Quraish Street فندق شارع قریش

Client: Ministry of Awqaf and Islamic Affairs.

Year: Designed in 1995.

Location: Jordan, Amman.

The designated plot is situated in downtown Amman, which is known for its heavy traffic. The client's plan was to develop the plot into a 3-star hotel on the top floor, retail shops on the ground floor, and a grocery market in the basement, as an investment project. However, solving the issue of vehicle movement and parking proved to be a major challenge. The work was presented by Murad Consultant and Kalaldeh Engineering Office, which earned the second prize in the competition. Unfortunately, the competition was later canceled by the client.

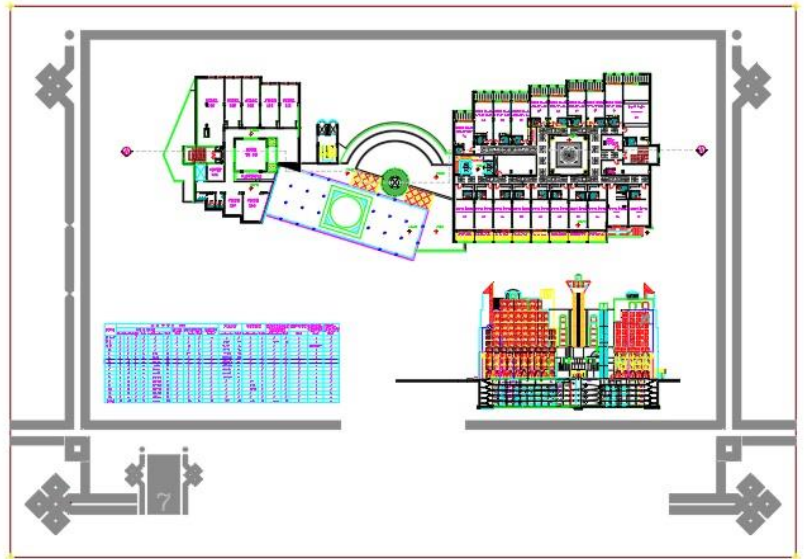


Fig. 17 Conceptual design poster showing the Ground Floor and Section.

## 2.13 Architectural Competition, MOTA Building in Petra مبنى السياحة بالبتراء

Client: Ministry of Tourism & Antiquities (MOTA)

Year: Designed in 1995. Location: Jordan, Petra.

The project involved designing an Administration Building for Petra Region Authority. As the Architectural Designer, I focused on creating a compact terraced structure that would complement the topography. The design concept was inspired by the Nabataean Style, particularly the treasury façade of Petra, and incorporated elements of Levant Architecture. I worked closely with Murad Consultant: Kalaldeh Engineering Office. The competition was canceled by client.

[www.kalaldeh.com](http://www.kalaldeh.com)



Fig. 18 Conceptual Design showing the Main Elevation

### 2.14 Villa Quraan فيلا محمد عودة القرعان

Client: Former Senator Mr. Mohammad Odeh Al-Quraan, Family residence

Year: Designed in 1995, and built in 1996.

Location: Jordan, Amman

The Heritage building was expanded and restored without the use of columns. The existing sheer wall supported new slabs.

Positions held: Designer and Supervisor during construction.

Consultant: Murad Kalaldehy Engineering Office

[www.kalaldehy.com](http://www.kalaldehy.com)



Fig. 19 Existing



Fig. 20 Extension next to existing wall shown in Fig. 19.



Fig. 21 Existing Shear wall

### 2.15 Business Incubators at RSS (iPARK) حاضنة الأعمال بالجمعية العلمية الملكية

Owner: Royal Scientific Society (RSS),

Year: 2002, done.

Location: Jordan, Amman, Al-Jubaiha.

I worked as an employee at the Building Research Center/Architectural Division at the RSS from March 12, 1996 to January 2, 2003. During this time, I provided architectural design services to convert an outdated mainframe computer center, which was built in the seventies, into a start-up business incubator. Fig. 22 shows the design alternatives.

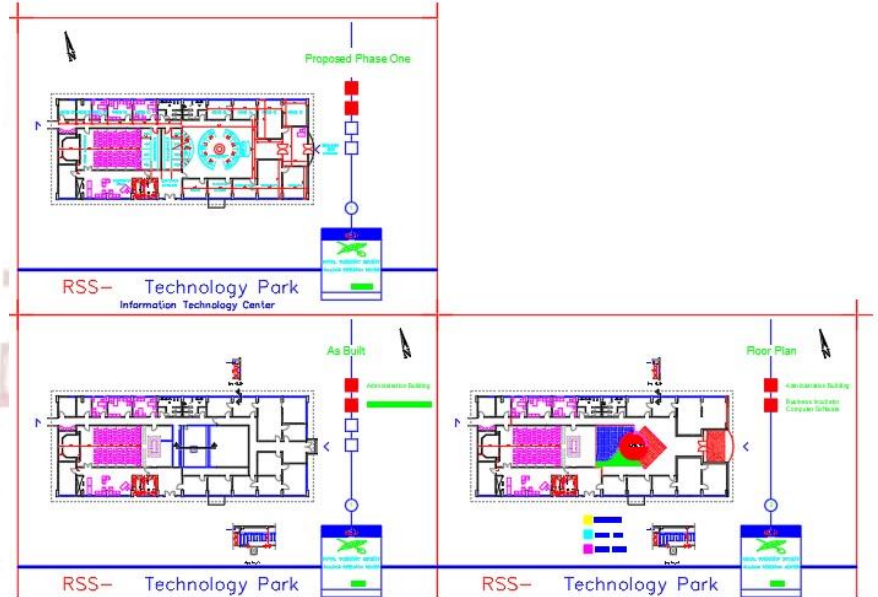


Fig. 22 Architectural Design by Murad Kalaldehy



## 2.16 RSS Technology Park الحديقة العلمية للجمعية الملكية

Owner: Royal Scientific Society (RSS),

Year: 2002, On-hold.

Location: Jordan, Amman, Tareq.

While at RSS, I was tasked with designing a project for a plot of land measuring 252,892 square meters, which had a rough topography. To tackle this challenge, I came up with a solution that included suitable road inclinations to serve different buildings, such as a Business Incubator, Administration, Multi-Tenant, Residential, and Commercial buildings. For more details, please refer to Figure 23.

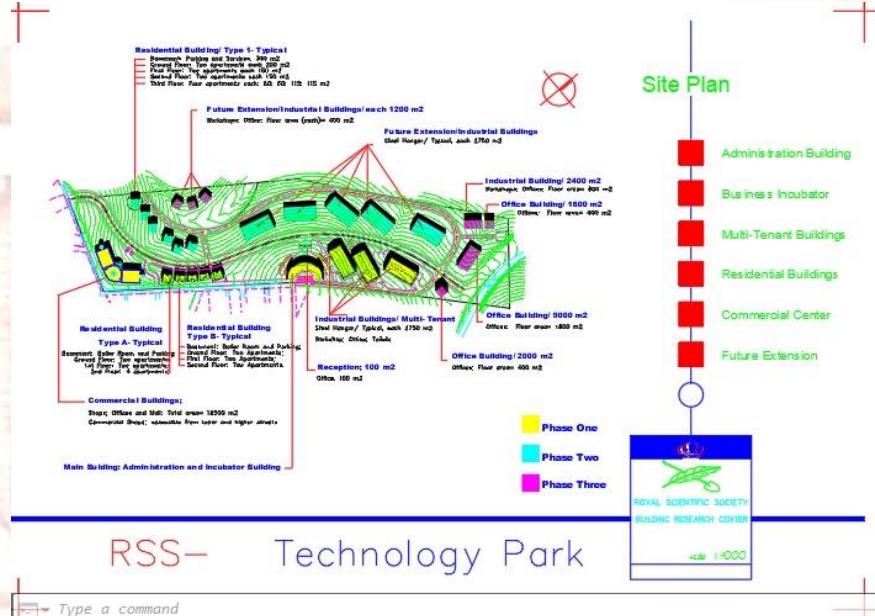


Fig. 23 Urban & Buildings Design by Murad Kalaldehy

## 2.17 Villa Ali Kalaldehy فيلا الأستاذ علي الكلالده

Client: Mr. & Mrs. Kalaldehy, 2005, 2010

Location: Jordan, Amman.

Initially designed by Architect Mohammad Bedour in 1988, the villa was expanded by Architect Murad Kalaldehy in 2005 with a second floor and a roof in 2010 while maintaining the original design style.

[www.kalaldehy.com](http://www.kalaldehy.com)

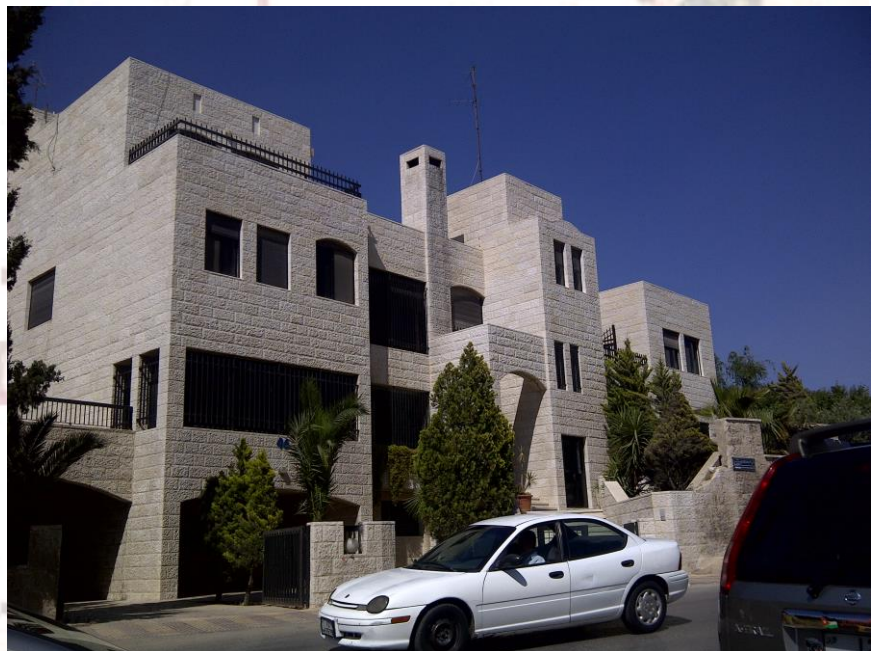


Fig. 24 Recent photo of the completed villa taken in 2018.

## 2.18 Commercial & Offices Building عمارة تجارية

Client: H.E. Ali Abu Alragheb (former Prime Minister)

Year: 2006

Location: Jordan

Main project features: Conceptual and detailed design of a Mixed-use commercial building consisting of Shops and Offices in Amman-Alrabieh. Total area 9,200 m<sup>2</sup> status: constructed with modifications.

Position held: project manager and designer.

Activities performed:

Analysis and perpetration of space programs and plans. Making design alternatives and detailed plans, elevations, sections, and 3D presentations.

Done @ Sigma Consulting Engineers



Fig. 25 Perspective of one of the design options by Murad Kalaldehy and team.

## 2.19 Environmental Dead Sea House البيت البيئي

Year: 2004

Location: Jordan

Client: King Abdullah II Design and Development Bureau KADDB

Main project features: Preparation of construction drawings for a pioneer research project for KADDB. The House is located on the Dead Sea shore and is planned to function fully through solar energy.

Positions held: Project manager.

Activities performed: supervising the detailed design phase and coordination between various engineering specialities.

@ Sigma Consulting Engineers.

## 2.20 Al-Rafidain Hotel Apartments شقق فندقية

Client: AL-Rafidain Investment Company

Year: 2006

Location: Jordan, Amman, Al-Sharif Naser Ben Jamil St.

Main project features: Preparing conceptual and detailed drawings for a 3-star Hotel Apartment and a suspended swimming pool on the roof. The total area is 11,000 m<sup>2</sup>.

Positions held: Project Manager and Designer.

Activities performed:

- Site visit and analysis,
- Preparation of alternatives and conceptual design.
- Supervising detailed design.

Done @ Sigma Consulting Engineers.



## 2.21 Villa Aziz فيلا عزيز

Year: 2010

Location: Jordan

Client: Eng. Aziz Ali

Main project features: 1'400 m<sup>2</sup> Private Villa consisting of Basement and two floors and swimming pool located in Amman.

Positions held: Project Manager & Architect

Activities performed: Conceptual and detailed design.

Done @ Sunna Alaqar Engineering Office "SACO" [www.kalaldehy.com](http://www.kalaldehy.com)

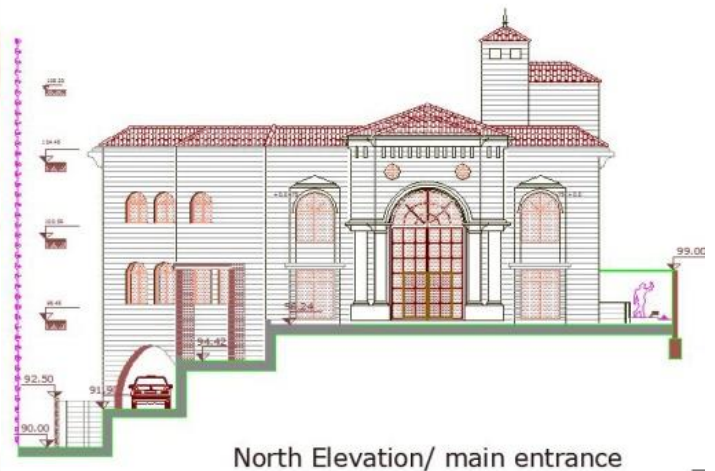


Fig. 26 Villa Aziz Main Elevation

## 2.22 Madaba Institute for Mosaic Arts and Restoration معهد مادبا لفن الفسيفساء والترميم

Consultant: SACO & DAOIE

Start Date - End Date: 2009 - 2012

Project: Expansion and Rehabilitation of Madaba Institute for Mosaic Art and Restoration (MIMAR).

Project Location: Madaba, Jordan

Client: USAID & MIMAR

Project Role: Project Manager & Designer

Project Description: Preparation of designs for the expansion and rehabilitation of MIMAR and overtaking the responsibilities of project manager during design and execution.

Responsibilities:

Planning site layout and designing the extension of buildings.

Coordination between team members (Architectural, Electro-mechanical and Structural).

Preparation of stage and final report.

Making presentation to USAID and MIMAR higher committee at the Ministry of Tourism & Antiquities.

Preparation of tender documents including drawings & BOQ

Controlling work plan and follow-up.

Construction supervision.

<https://youtu.be/pkOZRoeqF4g?si=WGrD0ydGW Ace47zh>



Fig. 27 Corner stone ceremony by MOTA Minster and USAID manager.



Fig. 28 The curved Auditorium floor is shown to the left of the picture, and the Administration building is at the back. designed by Murad Kalaldehy 2009.



Fig. 29 Administration Building Entrance.



2.23 Interior Design at MIMAR التصميم الداخلي لمدرج معهد مادبا لفن الفسيفساء والترميم



Fig. 30, 31 & 32 Auditorium, Speaker Podium designed by Murad Kalaldehy as gift for MIMAR.

2.24 Karrad Mall مول الكراد

Year: 2007

Location: Jordan

Client: Yousef Karrad & Partner.

Main project features: Conceptual design for a 10-story building located in Amman-Nwegees with an area of (27,400) m<sup>2</sup> designated for a Hypermarket, retail shops, and offices. Three basements provided the needed parking and space for services.

Positions held: Project manager & designer.

Consultant: Sunna Alaqar Engineering Office

[https://youtu.be/r8J500SxQPE?si=fkEP42PfZDIY6\\_pZ](https://youtu.be/r8J500SxQPE?si=fkEP42PfZDIY6_pZ)

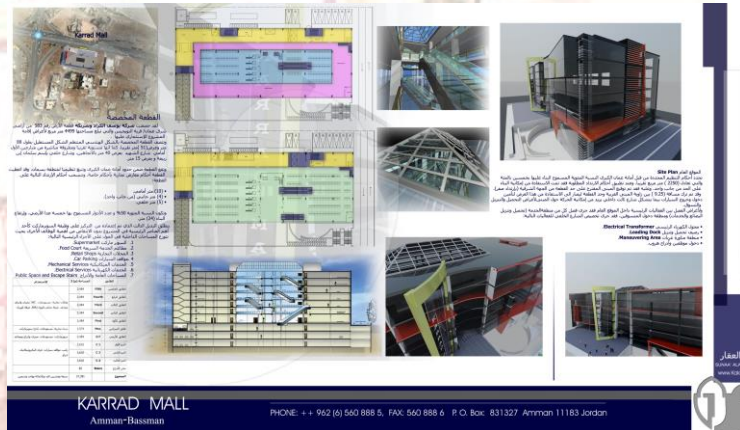


Fig. 33 Conceptual Mall design

2.25 Villa Siksik فيلا السكسك

Year: 2009

Location: Jordan, Amman

Client: Mr. W. Siksik

Main project features: 800 m<sup>2</sup> two floors, Basement and roof.

Activities performed: provided design to expand an existing building and transform it into a Spanish-style villa.

Consultant: Sunna Alaqar Engineering Office [www.kalaldehy.com](http://www.kalaldehy.com)



Fig. 36 Isometric drawn in water color by Murad Kalaldehy



## 2.26 Gardens Commercial عمارة الجاردين التجارية

Year: 2007

Location: Jordan

Client: S. Abu Taweleh & Partner

Main project features: Conceptual design for 10-story building located in Amman- Wasfi Tell Street with an area of (27'400) m<sup>2</sup>.

Positions held: Project manager and designer.

Activities performed:

- Site visit and analysis.
- Preparation of space program and circulation.
- Preparing design alternatives.
- Conducting presentations and discussions with client.
- Preparing detailed plans for the preferred alternative.
- Supervising the preparation of 3D images and movie.



Fig. 37 Building Lobby

## 2.27 Villa Haddad فيلا حداد

Year: 2009

Location: Jordan, Al-salt

Client: Eng. T. Haddad

Main project features: 1'100 m<sup>2</sup> two floors, Basement and roof.

Activities performed: concept and detailed design.

Consultant: Sunna Alaqar Engineering Office

[www.kalaldehy.com](http://www.kalaldehy.com)



Fig. 38 Villa 3-D visualization

## 2.28 Villa Babbas فيلا الدباس وحمارة

Conceptual design for a family villa in Amman's suburbs consisting of a Ground Floor and Basement in a Spanish Style.



Fig. 39 (above) Main Entrance, Fig. 40 Conceptual Design





### 2.29 Abdali Tower البرج العبدلي

Client: Private Investors

Year: 2005 (on-hold)

Location: Amman- Former Al-Muasher Hospital

أرض مستشفى المعشر سابقاً

At the intersection of several main roads lies a plot of land measuring 16000 square meters, a prime location for a state-of-the-art development. Due to its proximity to the Abdali Boulevard project, it has benefited from favorable regulations that allow for the construction of a high-rise tower. Design Department 6 at SIGMA, led by Murad Kalaldehy, has proposed a unique and innovative design for the Tower, illustrated in Figure 35. The Tower has been dedicated to a hotel and offices, divided into two portions, and raised vertically to expose the different functional arrangements, as evident in the split circular shape

Done @ Sigma Consulting Engineers.



Fig. 41 Abdali Tower and Hospital Podium designed by Murad Kalaldehy

### 2.30 Al-Ahli Club development تطوير النادي الأهلي

Client: Al-Ahli Club

Year: 2005 (on-hold)

Location: Amman- Bayadir Wadi El-Seer

Main project features: The club was founded in 1944 and has since relocated to its current 12.5-hectare site. It holds a strategic location but requires immediate upgrades. In response to a request from the SIGMA's CEO, who is also a founding member of the club, Murad Kalaldehy presented a conceptual design for the club's development, which is shown in Figure 42.



Fig. 42 Conceptual Design

### 2.31 F. Kalaldehy Apartment Building شقق الكلالدة السكنية

Year: 2008

Location: Jordan, Amman- Al-Jubaiha

Client: Mr. Fawaz Al-Kalaldehy

Main project features: 2500 m<sup>2</sup> consists of floor apartments and a basement for services.

Positions held: Project manager & designer.

Activities performed: Complete Architectural design and production of legalization and construction drawings.

Consultant: Sunna Alaqar Engineering Office "SACO"



Fig. 43 Kalaldehy Apartment Building



### 2.32 Nuclear Reactor at JUST المفاعل النووي بالكتكو

Client: Jordan Atomic Energy Commission

Location: Jordan

January 2017

Activities performed:

Won public tender to evaluate the finishing and the non-nuclear Electro-mechanical installations at the reactor building.

Inspection of finishes of the Research Reactor Buildings at Jordan University for Science and Technology (JUST).

Consultant: Sunna Alaqar Engineering Office "SACO"

[www.kalaldehy.com](http://www.kalaldehy.com)

Room Number	Room Name	Remarks	Finishing							Sample Picture		
			Painting	Flooring	Plumbing	Ceiling	Handrail	Lighting	Deduction			
SR B2 R21	Gal Ventilation area	1. Wall Paint is disproportionate and needs treatment and final layer to unify color. 2. Check floor Epoxy coating and to patch.									Not Applicable	
SR B2 R22	BLDG Ventilation area	1. Wall Paint is disproportionate and needs treatment and final layer to unify color. 2. Check floor Epoxy coating and to patch.									Not Applicable	
SR B2 R23	Sump pump RM	No remarks, End note (4) apply									Not Applicable	
SR B2 R24	MWC & Cori RM	1. Wall Paint is disproportionate and needs treatment and final layer to unify color. 2. Check floor Epoxy coating to patch and missing spots around floor edge. 3. Fix source of water leakage on floor. 4. Repair Epoxy coating around/under pipes.									Not Applicable	
SR B2 R25	Research bank 1	No remarks, End note (4) apply									Not Applicable	
SR B2 R26	Research bank 2	No remarks, End note (4) apply									Not Applicable	
SR B2 R27	Research bank 3	No remarks, End note (4) apply									Not Applicable	
SR B2 R28	Medium-Solid Waste Storage	No remarks, End note (4) apply									Not Applicable	
SR B2 R29	Floor drain robot 2	No remarks, End note (4) apply									Not Applicable	
SR B2 R30	Floor drain robot 3	No remarks, End note (4) apply									Not Applicable	
SR B2 R31	Waste drain storage	No remarks, End note (4) apply									Not Applicable	
SR B2 R32	City Filter waste storage	No remarks, End note (4) apply									Not Applicable	

Fig. 44 Finishing Checklist

### 2.33 Tafileh Social Society Building مبنى جمعية أبناء الطفيلة في عمان



Fig. 45 Conceptual Design on a Brochure



Fig. 46 Building during construction

Client: Tafila Governorate Sons Association in Amman.

Location: Jordan, King of Bahrain Kingdom Forest.

January 2017

Activities performed:

The building is designed to accommodate society activities such as celebrations, weddings, and funerals. It covers an area of 2500 square meters. The Ground floor is dedicated to a library and a grand hall equipped with a terrace. A circular lobby with a spiral stair leads to the basement level, where a sports club is located. The same stair leads to the first level, where training rooms and suites are available.

The car parking lot can hold up to 60 cars and is located on the first and second basement levels. An additional nine car parking spaces are available in the front setback of the building dedicated to VIPs. Two large underground water tanks are built to meet the users' demands.

Consultant: Sunna Alaqar Engineering Office "SACO" and the designer is Dr. Murad Kalaldehy

[www.kalaldehy.com](http://www.kalaldehy.com)

### 3. Urban Design Experience الخبرة بالتصميم الحضري

#### 3.1 Al-Hassan Industrial Estate توسعة مدينة الحسن الصناعية



Client: Jordan Industrial Estates Corporation

Year: Designed in 1997, existing.

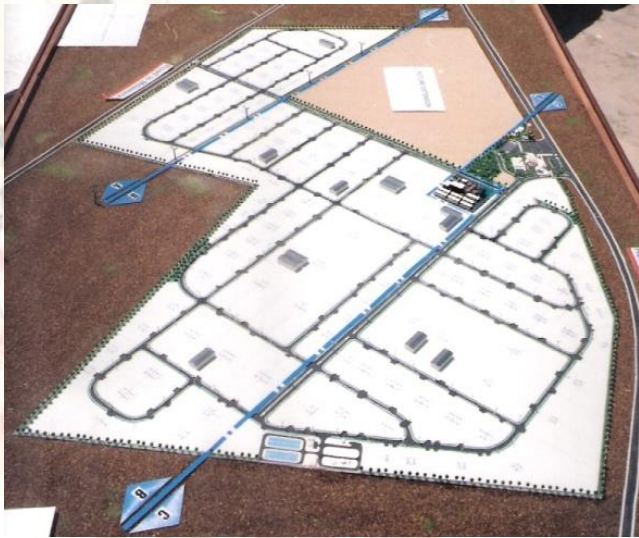
Location: Jordan, near Ramtha.

Main project features: Urban design and detailed site work for the extension of the existing Industrial Estate to provide additional investment plots (400'000) m<sup>2</sup>.

Positions held: Designer and coordinator with infrastructure engineers.

Consultant: Royal Scientific Society in Cooperation with Consolidated Consultants.

#### 3.2 Ma'an Industrial Estate مدينة معان الصناعية



Client: Jordan Industrial Estates Corporation.

Year: 1996-1997 (Phase One constructed)

Location: Ma'an- Jordan.

The project features a new Industrial Estate in southern Jordan, 8km east of Ma'an, developed in three equal phases. It also offers expandable infrastructure networks and integrated services.

The main features are:

1. Administrative complex situated in phase (1) of the project with a total roof area of (2,075) m<sup>2</sup>.
2. (122) Investment plots distributed over (9) investment sectors for phase (1) of the project, (152) investment plots distributed over (12) investment sectors for phase (2) of the project, and (91) investment plots distributed over (8) investment sectors for phase (3) of the project.
3. Integrated networks of primary and secondary roads of different widths with a total length of (15'357) m and a





Positions held:

Urban Planner & Architect.

Activities performed:

Conducting site visits, surveys, and analysis.

1. Arranging and attending meetings for all involved parties.
2. Submitting potential solutions for all site expansion.
3. Implementing the agreed-upon solution on a detailed master plan and site works.
4. Preparation of tender documents.
5. Follow-up of Model work.

Consultant: Royal Scientific Society in Cooperation with Consolidated Consultants.

- total paved area of (162'600) m<sup>2</sup> for all (3 three phases.
4. Integrated infrastructure networks (water, storm, sewerage, electricity, street lighting, communications, and fire hydrants) for each project phase.
5. Activated sludge "Extended Aeration" wastewater treatment plant situated in the northeast part of the project where the dominant wind direction is western to south-western.
6. 45-meter-high reinforced concrete elevated water tank with a storage capacity of 450 m<sup>3</sup>.
7. One reinforced concrete groundwater reservoir for each project phase with a capacity of (1500) m<sup>3</sup>.
8. Allocation of (23,700) m<sup>2</sup> in phase (1) of the project for central transformer station installation.
9. Allocation of (3,000) m<sup>2</sup> in phase (1) of the project for primary exchange construction.
10. Entrance gates to phase (1), (2) and phase (3).

### 3.3 Yadoudeh Gated Compound مجاورة سكنية



Client: Private Investors & ULDC

Year: 2005 (on-hold)

Location: Amman- Airport Road, Jordan

Main project features: Residential gated compound for 10- high luxury villas, (40) semi-villas, (150) apartments' fitness center, and a shopping center. 80 dunum= 80'000 m<sup>2</sup>, Built-up area: 120'000 m<sup>2</sup>.

Consultant: Sigma Consulting Engineers.



### 3.4 Ma'an Residential Compound ضاحية إسكان الفوسفات بمعان



Year: 1996 (Phase One Constructed).

Location: Ma'an City- Jordan

Client: Jordan Phosphate Mines Company.

Main project features:

A residential gated complex was constructed for the employees serving at Al-Sydeyeh Industrial Complex located to the east of Ma'an City. The complex was designed with a General Layout Plan that takes into consideration future expected extensions. The detailed design was made for the First Phase, which comprises 100 residential units. Three building types were designed, each with a size of 122/145/168 m<sup>2</sup>. The residential units were attached in a semi-detached system with a separate outdoor space for every two units.

In addition, a school for girls with an area of 4,000 m<sup>2</sup> was designed using Building System No. 5, which was developed at RSS. A 45-meter-high water tower with a capacity of 200 m<sup>3</sup> was located at the highest level available and served the site with the necessary water demand. An additional underground water reservoir with a capacity of 650 m<sup>3</sup> was designed to support the water storage. The area of the complex is 45 hectares (450 dunum, 450,000 m<sup>2</sup>).

Positions held: Site selection & Urban Designer.

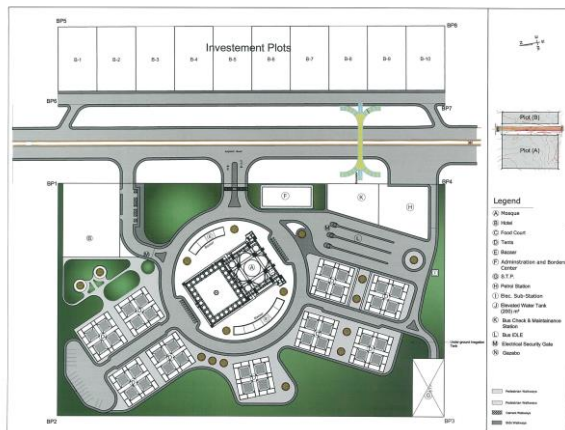
Activities performed:

- Location comparison and site selection.
- Site analysis.
- Conceptual Master Plan.
- Detailed Master Plan.
- Hard and soft Landscaping design.
- Participating in the preparation of tender documents.
- Follow-up of Model work.

Consultant: Royal Scientific Society in Cooperation with Consolidated Consultants.



### 3.5 Hajj Oasis واحة الحج



Year: 2010, constructed

Location: Ma'an- Jordan

Client: Consolidated Consultants as Sub-contract for Ma'an Development Company

Main project features:

Hajj Oasis is one of the four clusters comprising the Ma'an Development Area. Its development is meant to offer temporary accommodation and various services to pilgrims on their way to Mecca and back for Hajj and Omrah. The 200 Dunum site is located on the Desert Highway (11) km to the north of Ma'an City. The project's main features are a Hotel, Commercial Facilities (Restaurants, Petrol Station, and Shops), Civic Facilities, Administration Facilities, a Mosque, Tents, a Sewage Treatment Plant, an Elevated Water Tank, and underground Reservoirs.

20 hectare (200 dunum= 200'000 m<sup>2</sup>).

Project Responsibilities:

Planning site layout and designing accommodation facilities;

Coordination between team members (Architectural, Electro-mechanical, and Structural).

Preparation of stage and final report.

Making the presentations to the Development Zones Authority.

Preparation of Architectural Design Guidelines







### 3.7 Container Terminal Gates **بوابات ميناء الحاويات**

Client: Aqaba Special Economic

Zone Authority and Aqaba

Development Company

Year Constructed: 2005

Location: Aqaba, Jordan

Main Project Features: The project involved planning appropriate entrance and exit paths and gates that would facilitate the smooth flow of trucks while maintaining complete security surveillance.

Detailed checking gates were designed, including roofs, kiosks, and catwalks. The project covered an area of 500 dunums (500,000 m<sup>2</sup>) with a built-up area of 500 m<sup>2</sup>.

Positions held: Project Manager, Architect, and Urban Designer.

Activities Performed:

- Conducting site visits, surveys, and analysis.
- Arranging and attending meetings for all involved parties.
- Submitting and presenting potential urban solutions.
- Preparing designs for the agreed-upon option.
- Finalizing tender documents.
- Partial construction supervision.

@ Sigma Consulting Engineers.



Fig. 24 Container Terminal East gate designed by Murad Kalaldeh.



Fig. 25 Container Terminal East gate entrance designed by Murad Kalaldeh.



### 3.8 King Abdullah Bin Abed Al-aziz City (KABAAC) in Zarqa مدينة خادم الحرمين الشريفين بالزرقاء

Client: Mawared Foundation, Year: 2006

Location: Jordan, Zarqa.

Main project features: Conceptual and detailed design for selected housing sectors in King Abdullah Bin Abdul Aziz City in Zarqa.

Positions held: Architect.

Activities performed:

Preparation of residential buildings design alternatives.

@ Sigma Consulting Engineers.

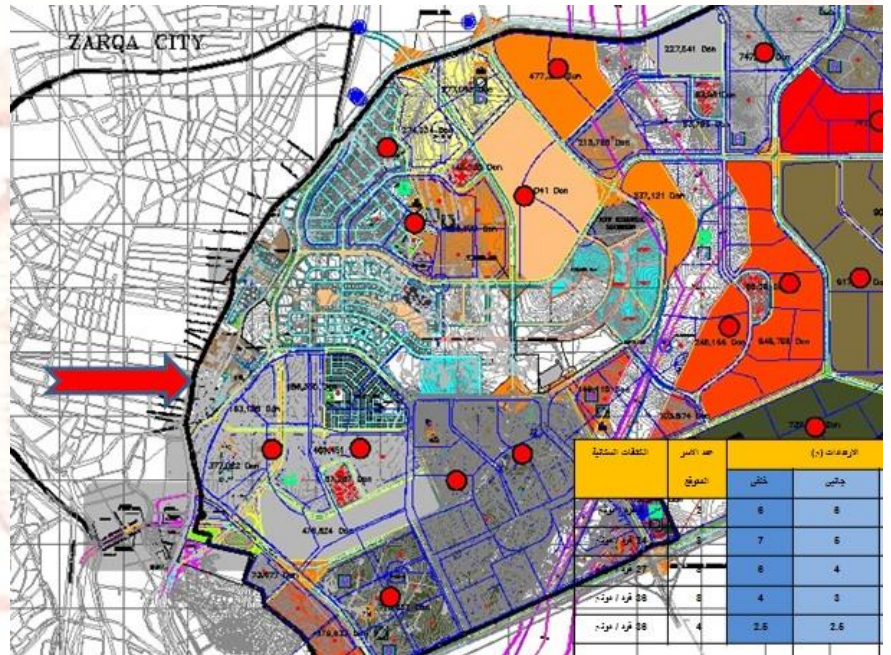
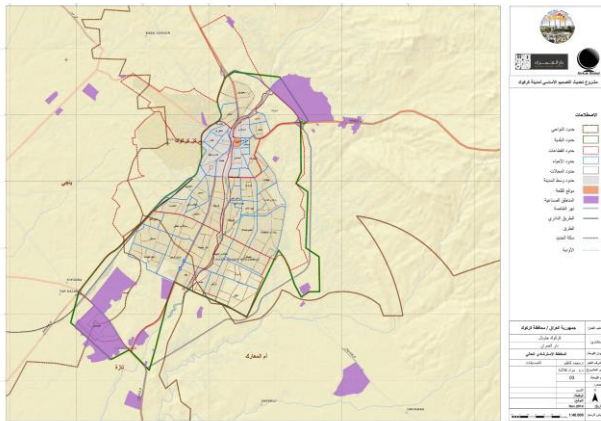


Fig. 26 KABAAC Master Plan

## 4. Regional & Master Planning Experience الخبرة بمجال التخطيط الإقليمي والحضري

### 4.1 Updating Kirkuk Master Plan تحديث المخطط الأساسي/ الشمولي لمدينة كركوك في العراق



Client: Kirkuk Global العراق

Year: 2014-2015.

Main project features:

Review and update the existing Master Plane done by Doxiadis.

Consultant: Dar Al-Omran Infrastructure & Environment (DAOIE)

Project:

Updating the Master Plan of Kirkuk City in Iraq

**Project Location:** Iraq. Work is to be done in Amman, with periodic visits to Iraq.





I was the Project Manager and principal Planner for an international project aiming to Update the Master Plan for Kirkuk City in Iraq. My work included supervising the preparation of Aerial photos, guiding the survey team for socio-economic studies, and collecting data on roads and infrastructure for GIS maps.

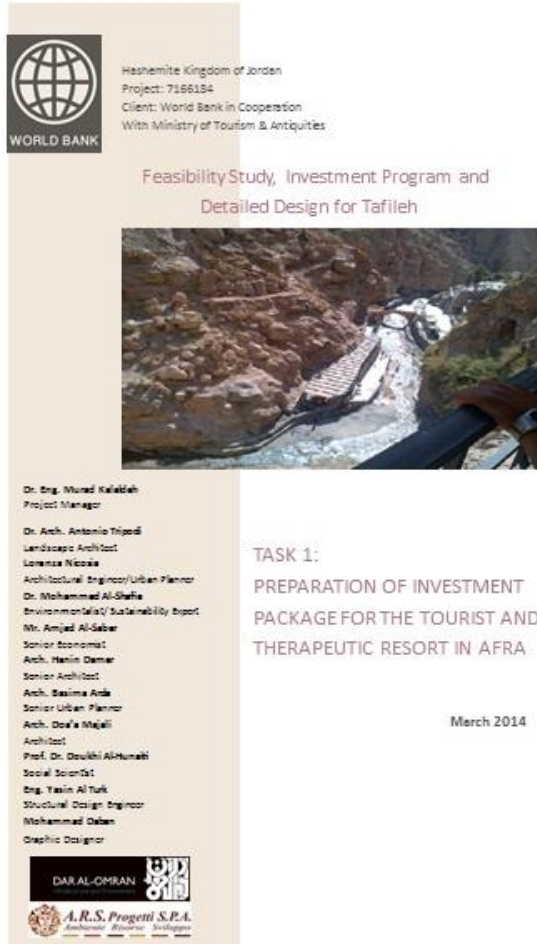
#### Project Responsibilities:

- Preparation of contracts for the acquisition of satellite images.
- Follow-up of office data collection works and field surveys on traffic and socio-economic studies and infrastructure.
- Reviewing investor's applications and formulating recommendations to Clients.
- Supervising the preparation of GIS maps.
- Coordination between team members.
- Preparation of Phase One report.
- Making presentations to stakeholders in Irbil.
- Controlling work plan and follow-up of related administrative works.

#### Kalaldehy's role and duties:

1. Project Manager in cooperation with DAOIE.
2. Review the project program and update it periodically.
3. Taking Minutes of meetings and sharing it with the concerned parties.
4. Preparation and supervision of studies and sectorial and detailed designs:
  - Both Al-Khasa river sides for the whole city within the proposed master plan.
  - A Housing sector for a new area within the new city expansion limits.
  - The old storage area after studying its uses.
  - The new industrial area.
  - Six different sectorial designs in different areas of the city.
5. Preparation of monthly reports.
6. Coordinate with DAOIE to work on the traffic study, water and wastewater, and electro-mechanical as per the signed agreement with the client.
7. Follow-up on preparing tender conditions and bills of quantities and cost estimation.
8. Supervising the preparation of the regional study of Kirkuk City and its vicinity and other studies necessary for urban planning as per the TOR.
9. Correspondence with client "Kirkuk Global" and the Governorate of Kirkuk in coordination with the senior planner at DAOIE.

## 4.2 Afra & As Sela' Detailed Design الخطة التنموية والتصاميم لتطوير حمامات عفرا وقرية السلع بالطفيلة



Contract with: Dar Al-Omran Infrastructure & Environment (DAOIE)

Company Location: Amman, Jordan

Start Date - End Date: 2014 – 2015

Project:

Consulting Services for preparing the Feasibility Study, Investment Program, and detailed Design for Tafileh (Afra & As Sela').

Project Location: Al-Tafiflah, Jordan

Client: World Bank

Project Role: Project Manager

Project Description:

The project included two tasks, Task (1) Preparation of Investment Package for the Tourist & Therapeutic Resort in Afra, which included the development on a financial model and management model. Task (2) focused on the development of a 3-year Site Improvement Plan that provides rational strategies and concepts for physical and operational improvements ... It shall also seek to establish linkages between the site and its surrounding trails and tourism attraction points”.

Project Responsibilities:

- Preparation of the management system.
- Designing the extension of the visitor's center.
- Coordination between team members (Architectural, Electro-mechanical and Structural) and with Progetti, the Italian counterpart.
- Engaging the local community in the plans for establishing income-generating projects.
- Preparation of stage and final report.
- Making presentation to stakeholders at the Ministry of Tourism & Antiquities.
- Controlling work plan and follow-up of related administrative works.



**DAR AL-OMRAN INFRASTRUCTURE & ENVIRONMENT (DAOIE) • Amman, Jordan • 2014-2015**  
*Consulting Contract for Preparation of Feasibility Study, Investment Program, & Detailed Design for Tafleeh (Afra & As Sala')*

**Project Manager – World Bank Project**

Supervised and participated in preparing investment packages for tourist and therapeutic resorts in Afra, including financial and management models. Developed a three-year site improvement plan, linking the site to surrounding trails and tourist attractions. Built a management system and designed a visitor center extension. Worked with the community to plan income-generating projects. Generated reports and presented the projects to key Ministry of Tourism & Antiquities stakeholders.

**4.3 UNDP تحديث الإستراتيجية العمرانية الوطنية للسعودية**



خبير دولي لدى برنامج الأمم المتحدة لتحديث الإستراتيجية العمراني بالسعودية

**UNDP • Riyadh, KSA • 2013-2014**

*Ministry of Municipal and Rural Affairs (MOMRA)*

Contract with: UNDP

Company Location: Riyadh, KSA

Start Date - End Date: 2013 - 2014

Project: UNDP Project SAU10-37944,

Project Location: All regions in KSA

Client: Ministry of Municipal and Rural Affairs (MOMRA)

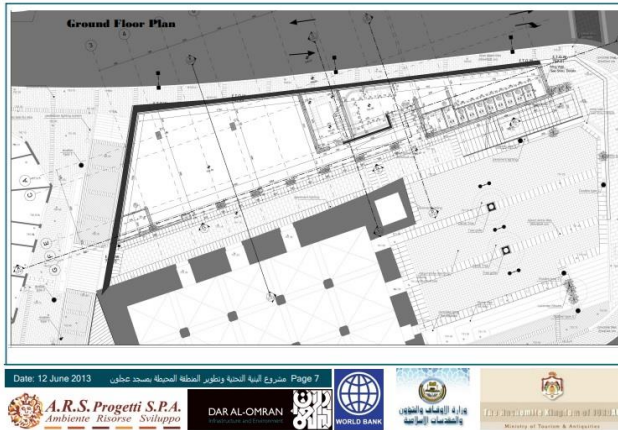
Project Role: International Expert

Project Description: Urban Planning- Phase IV, Riyadh- Kingdom of Saudi Arabia: Reviewing, Updating, and Activating the National Spatial Strategy (NSS) Recommendations.

Project Responsibilities: Review the National Spatial Strategy for Saudi Arabia, which was approved in 2001, and update information, numbers, and figures as per the project finish date in 2014.

Reviewed, updated, and activated National Spatial Strategy (NSS) recommendations for urban planning – Phase IV for the Kingdom of Saudi Arabia. Updated numbers, figures, and information and assessed compatibility with national development plans.

#### 4.4 Development of Ajloun Mosque Surrounding Area تطوير محيط مسجد عجلون



Contract with: Dar Al-Omran Infrastructure & Environment (DAOIE)

Start Date - End Date: 2013

Project:

Consulting Services for the preparation of Infrastructure design and development of Ajloun Mosque's surrounding area.

Project Location: Ajloun, Jordan

Client: World Bank

Project Role: Project Manager

Project Description:

Worked as a project manager to facilitate the submission of construction drawings for the ongoing project.

It included the coordination between team members (Architectural, Electro-mechanical, and Structural) and with Progetti, the Italian counterpart.

The project aimed to engage the local community in the plans for establishing income-generating projects.

The work also included preparing the stage and final reports and making presentations to stakeholders at the Ministry of Tourism & Antiquities.

#### 4.5 Key-Note Speaker متحدث رئيسي بالإسكان



Dr. Kalaldehy participated in the preparation and sessions of international congresses such as the 3<sup>rd</sup> Arabic Housing Conference, which was held in Amman (17-18) December 2014, and as a key keynote speaker at the first Arab Ministerial Forum on Housing and Urban Development, which was held in Cairo (20-22) December 2015.



#### 4.6 Urban Planning Expert لدى وزارة الإسكان بالسعودية خبير تخطيط حضري مع بارسونز-

**SAPL**

Saudi Arabian Parsons Ltd  
P.O. Box 1174 - Riyadh 11431  
Kingdom of Saudi Arabia  
Tel. (966 - 11) 511 7477  
Fax (966 - 11) 511 7389  
C. R. 1010213041

رأس المال ١٥ مليون مدفوع بالكامل

شركة بارسونز العربية السعودية المحدودة  
ص. ب. ١١٧٤، الرياض ١١٤٣١  
المملكة العربية السعودية  
تلفون : ٥١١ ٧٤٧٧ (١١ ٩٦٦)  
فاكس : ٥١١ ٧٣٨٩ (١١ ٩٦٦)  
ص. ت ١٠١٠٢١٣٠٤١

Date: 23 Feb 2016

التاريخ: 14 جماد اول 1437هـ

**Certificate of Service**

**شهادة خدمة**

**TO WHOM IT MAY CONCERN**

**إلى من يهمه الأمر**

In accordance with Article 64 of the Saudi Labor and Workmen Law, be it known that:  
Mr. Murad Farhan Khalil Kalaldehy  
Saudi ID/ 2383980550  
Employee Number / 9872B

تشيبا مع ما ورد بالمادة 64 من نظام العمل والعمال بالمملكة العربية السعودية، فليدركم بالآتي:  
لقد عمل السيد/ مراد فرحان خليل الكلالده  
رقم الهوية/ 2383980550  
الرقم الوظيفي / 9872B

Was employed by Saudi Arabian Parsons LTD  
From 10-Mar-2015 to 13-Mar-2016.

عمل لدى شركة بارسونز العربية السعودية المحدودة،  
من 10 مارس 2015 إلى 13 مارس 2016.

His last job title was: Urban Planning Expert

ولقد كانت آخر وظيفة يشغلها هي: خبير تخطيط حضري

This Certificate of Service was issued in the city of Riyadh-Kingdom of Saudi Arabia.

وقد منحت له هذه الشهادة في مدينة الرياض-المملكة العربية السعودية.

Meshal M Al Muhawwis  
Talent Management Manager

Any alteration on this certificate renders it null and void.



مشعل محمد المهوس  
مدير الموارد البشرية

أي تغيير في هذه الشهادة

خبير تخطيط حضري (وزارة الإسكان) السعودية

PARSONS, SAPL • Riyadh, Saudi Arabia •  
March 2015 – March 2016  
Ministry of Housing

In March 2015, he joined PARSONS as an urban planning expert to support the Saudi Ministry of Housing in executing a National project to solve the country's housing problem. As much as \$67 billion has been set aside for the construction of 500,000 housing units as part of a wider social program to enhance education, healthcare, and services in KSA.

Review of regulations.

Conducting training for Ministry upper management.

Serve as principal urban planner. Review designs submitted by Parsons and other international consultants and assist other urban planners. Assess regulations and guidelines for the Ministry of Housing. Train MOH staff in tender document preparation, building codes, and FIDIC.

Conducted a 10-hour Training Course for the Saudi Ministry of Housing on the Preparation of Tender Documents (Drawings, Specifications & Bills of Quantities) as per FIDIC, June 2015.

#### 4.7 صياغة السياسة العامة لتوفير الأراضي للمشاريع الإسكانية في الإمارات العربية المتحدة (خبير دولي)

Preparation of Public Policy on Land Supply for Housing Projects in the UAE

International Planning Expert for Sheikh Zayed Housing Program to establish a governmental policy to regulate the Demand-Supply issue of plots for residential use, August-Sep. 2018.

#### 4.8 Evaluator of Ras Al Khaimah Municipality work/ UAE

خبير دولي لتقييم ومراجعة عمل بلدية رأس الخيمة بالإمارات العربية المتحدة لجائزة الشيخ صقر للتميز الحكومي

For Sheikh Sqr Program for Government Excellence on (Municipality Organizational Structure, Valid Building Codes & Regulations, Issuing Building License Occupancy Permits) Feb. 2018.

#### 4.9 إعداد المرحلة الأولى للاستراتيجية الوطنية للإسكان لدولة الإمارات العربية المتحدة 2024

## 5. Academic Experience الخبرة الأكاديمية

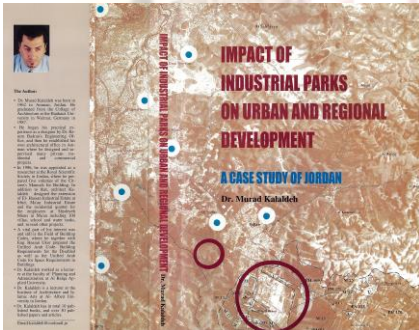
- 5.1 Lecturer at Faculty of Planning & Administration at **Al-Balqa Applied University**, second-semester academic year 2002/ 2003 teaching:
- Basics of Planning, 3 credit hours.
  - Scientific Research, 3 credit hours.
  - Special topics in planning “Industrial Parks” 3 credit hours.
  - Planning Studies in English Language, 3 credit hours.
- 5.2 Lecturer at Institute of Architecture and Islamic Arts at **al-Bayt University**, academic year 2003/2004 teaching:
- Architectural Design (1), 6 credit hours.
  - Architectural Design (2), 6 credit hours.
  - Architectural Design (3), 6 credit hours.
  - Architectural Design (4), 6 credit hours.
  - Sanitary Systems, 2 credit hours.
  - Environmental Control, 3 credit hours.
- 5.3 Lecturer at the **University of Jordan**, academic year 2007/2008 supervising Architectural Design (6), 6 credit hours.
- 5.4 Lecturer at the **University of Science & Technology (JUST)** during academic year 2011/2012 teaching Urban Economics and supervising Urban Planning students, 7 credit hours.
- 5.5 Lecturer at Faculty of Engineering- Department of Architecture at **Al-Balqa Applied University**, the academic year 2019/2020, 2020/2021, 2021/2022, 2022/2023 teaching:
- Introduction to Architectural Design (1), 3 credit hours.
  - Introduction to Architectural Design (2), 3 credit hours.
  - Architectural Design (1), 4 credit hours.
  - Architectural Design (2), 4 credit hours.
  - Architectural Design (3), 4 credit hours.
  - Architectural Design (4), 4 credit hours.
  - Architectural Design (5), 4 credit hours.
  - Architectural Design (6) Urban Design, 4 credit hours.
  - Building Construction (1), 3 credit hours. 1 إنشاء مباني
  - Urban Planning & Housing, 3 credit hours. التخطيط الحضري والإسكان
  - Construction Design, 3 credit hours. تصميمات تنفيذية
  - Critic & Architectural Analysis, 3 credit hours. النقد والتحليل المعماري
  - Graduation Project (1), 3 credit hours for 4 academic years. 1 مشروع تخرج
  - Graduation Project (2), 6 credit hours for 4 academic years. 2 مشروع تخرج



## 6. Publications المنشورات

### 6.1 Published Books

- 6.1.1 Building, Reinforcement, Formwork, Ministry of Education- Technical Education/ 10th Class, 1995, 329 p. (Co-author). **بناء وتسليح وطوبار، وزارة التربية والتعليم**
- 6.1.2 Plastering, Paving and Painting, Ministry of Education- Technical Education/ 10th Class, 1995, 316 p. (Co-author). **قسارة وتبليط ودهان، وزارة التربية والتعليم**
- 6.1.3 Builder-Owner Manual, 2003. The Simplified Citizen's Manuals for Building and consists of (8) volumes, five of them were written by Dr. Murad Kalaldehy as Author with a partial contribution of co-authors; these Books are:
- Volume (4): Site Selection and Engineering Drawings **دليل المواطن للبناء- إختيار الأرض وإعداد المخططات الهندسية**
  - Volume (5): Site Activities and Excavations **دليل المواطن للبناء، تجهيز الموقع والحفريات**
  - Volume (6): Building Skeleton. **دليل المواطن للبناء، أعمال الهيكل**
  - Volume (7): Insulation Works and Finishes. **دليل المواطن للبناء، أعمال العزل والتشطيبات.**
  - Volume (8): External Works. **دليل المواطن للبناء- الأعمال الخارجية**
- 6.1.4 Unified Arab Code: Building Requirements for People with Special Needs, 2003, P 156 (Co-author). **الكودة العربية الموحدة للبناء لذوي الإحتياجات الخاصة.**
- 6.1.5 Unified Arab Code: Space Requirements in Buildings, 2004 (Co-author).
- 6.1.6 Kalaldehy, M., 2014: Real Estate and Building Materials (in Arabic), Citizens manual for construction, Al-Manahij, 1/ first/ 95, 2014. **العقار ومواد البناء**
- 6.1.7 Impact of Industrial Parks on Urban and Regional Development (in English), Book based on PhD theses, Jordan Industrial Estates Corporation, I/first/324, 2004.



### 6.2 Published Articles

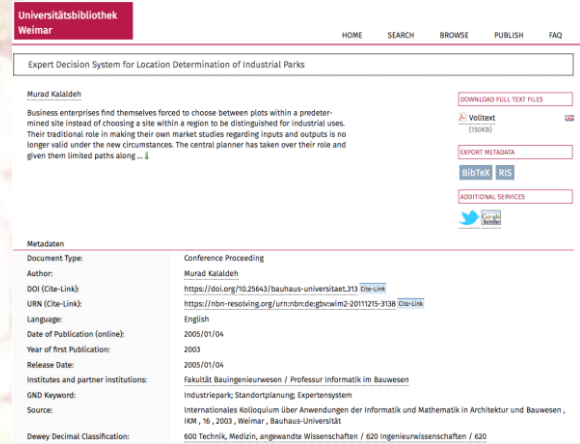
1. Articles Published in Magazines: Published By The Jordan Engineers Association (JEA): Eight Articles in Almuhandes Alurdini 'Jordanian Engineer' and Nine Articles in Alnashra Almimaria 'Architectural Periodical'.
2. Published more than 100 articles in engineering magazines and news websites. Publication list available upon request.
3. Afkar 2021: New Amman. **ص 19-28**.
4. 6th International Architectural Conference: The Future of Urban Planning and Jordanian Centennial (29-30) June 2022: **Turning Arid Wadi Araba into a Development Oasis through Red Sea Water Canal.**
5. 15<sup>th</sup> International Conference on the Archeology of Jordan ICHAJ15, Yarmouk University, Irbid, Jordan (18-21) July 2022: **Turning Amman downtown into a tourist destination through the exposure of the Roman Baths at Al-Hashemi Street.**

## 7. Scientific Research البحث العلمي

### 7.1 Paper in International Conference on Mathematics (IKM-Weimar, Germany) 2003

ورقة عمل بالمؤتمر العالمي للرياضيات في ألمانيا

<https://e-pub.uni-weimar.de/opus4/frontdoor/index/index/docId/313>



### 7.2 Expert-decision Matrix نظام محوسب لإختيار الموقع 2005



Year: 2009 (completed) Location: Jordan, Sponsor: Higher Council for Science and Technology & EU-Jordan. The main project features are the development of an expert decision matrix for location analysis of investment parks and the first matrix, the labor force supply. Positions held: Researcher. Activities performed: A research project awarded to Dr. Murad Kalaldehy by the EU-Jordan Research: Development of an expert-decision system that functions on the screen to indicate the labor force supply needed and expected for an investment park.



**7.3 Dead Sea Sinkholes** بحث ممول من وكالة الفضاء الأوروبية حول الحفر الخسفية بالبحر الميت

Cope with potential and real failures in ongoing infrastructure projects (hotels, bridges, etc.)  
Copernicus is a European Union Programme to develop European information services based on satellite Earth Observation and in situ (non-space) data.

Establishing an expert system for location selection of investment projects via coupling hydro-climatic elements with karst systems through satellite images enables the simulation of existing and predicted ground movements (Urban Expert).

Socio-economic benefits of the service:  
Land planning adapted to circumstances.  
Avoid economic losses.  
Sustainability of the project long enough to allow return on investment for investors.  
Avoid potentially fatal losses.  
Long-term goal:

Introduce systematic remote sensing in the decision-making process.  
Providing explicit knowledge about karst environments and their interpretation BEFORE tourism project has been launched: Maps, advice & simulations.  
AFTER construction: monitoring  
Develop flexible land planning.  
Considering global warming & increase of population.

**SUSTAINABILITY OF KARST TOURISM PROJECTS IN THE MEDITERRANEAN REGION - KATOOM**

**Customers:**  
European Space Agency and the Belgian Scientific Policy

**Period of execution:**  
2017 (POC)  
2018 (Demonstration)

**Location:**  
Jordan (Dead Sea)

**Contacts:**  
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+962 (0) 795332311

**Summa Aalaqar Engineering Office**  
www.kalaldehy.com

In the frame of this ESA Integrated Applications Promotion (IAP) project, Eurosense targets to turn the outcome of research in salt karst hazards assessment in the Dead Sea into a full-operational service for decision makers, land planners and hotel managers.

In practice, the contribution of Sentinel-1 radar imagery to the service will be tested and evaluated. The results, combined with previous research achievements, will be communicated to potential end-users which include the Ministry of Tourism and Antiquities of Jordan, Zara Investment Holding and the Holiday Inn resort Dead Sea.

Overall benefit for the human collectivities: the project KATOOM will improve the decision making process taking place in economic valorization projects. The amelioration will be done by a systematic use of remote sensing technologies to guaranty the security of major tourism infrastructures such as hotels, roads, bridges, dams and pipelines in salt karst terrain that are at high risk of sinkholes, subsidence and landslides.

These threats have increasingly becoming a major geo-hazard in many areas around the world, and especially in the Mediterranean basin.

Based on the outcomes of this proof of concept study, in a demonstration phase, the technical service and the commercial approach developed in the Jordanian Dead Sea area will be extended for the assessment of tourism project sustainability in karst areas in the whole Mediterranean region.

**Figure 1:** Sentinel-1 radar satellite

**Figure 2:** ground deformation field computed from Sentinel-1 time-series

**Figure 3:** landslides at the Holiday Inn front beach  
© Prof. Najib Abo Karaki  
11 Augustus 2012

**Scope of the study:**

- Sentinel-1 radar image processing time series analysis, ground deformation fields coupled with hydro-mechanical model
- Economic viability: potential end-users feedback, market analysis, business proposition
- Teamwork development in Jordan: University of Jordan, Summa Aalaqar Consulting Office (SACO) Dr. Murad Kalaldehy, and Eurosense
- Letters of support for the demonstration phase

**Technical description:**

- The radar images processing is performed with Envi-Sarscape™ software. Ground deformation fields are analysed in esri ArcGIS environment.
- Field validation is carried out in Jordan under the supervision of Prof. Najib Abo Karaki / The University of Jordan.

**Belgian - Jordanian consortium**

The University of Jordan: Prof. Najib Abo Karaki

Summa Aalaqar Consulting Engineers: Dr. Ing. Murad Kalaldehy

EUROSENSE: Dr. Damien Closson

Geology and seismology  
Architecture and land planning  
Cartography and remote sensing

**7.4 Land Conversion by Housing Cooperatives in Jordan** مشروع دولي حول تغيير إستعمالات الأراضي الأردنية

Ababsa M., Kalaldehy M., 2023: Conversions des usages des sols liées à l'urbanisation dans les Suds: études de cas (Land use conversions linked to urbanization in the South: case studies) Jordanian Case Study:

The processes of land conversions in Amman: The case of cooperatives deprived of housing <https://www.foncier-developpement.fr/wp-content/uploads/Etude-de-cas-Jordanie.pdf>

**Amman (Jordanie)**  
La Coopérative des employés de la Municipalité, une recherche de Myriam Ababsa et Murad Kalaldehy

1. Contexte  
2. Objectifs  
3. Méthodologie  
4. Résultats  
5. Conclusion

Présentation internationale n° 4 du 20.05.2023

- 7.5 Research paper submitted for publication in Scopus-indexed Journal **بحث مرسل للنشر**  
Kalaldehy, M. Shyyab, A, 2023: Urbanization along seasonal water streams between Philadelphia and Amman over an 1850-year time lapse. Under review by: Journal of Architectural and Planning Research
- 7.6 A research paper submitted for publication in Scopus-indexed Journal **بحث مرسل للنشر**  
Kalaldehy, M., Tarawneh, D., 2023: Development of a Dynamic Quantitative Digital Model for the Measurement of Smart City Maturity Level in the City of Amman

## 8. Management Experience **الخبرة بالإدارة**

- 8.1 Owner & Manager of Murad Kalaldehy Engineering Office 1990-1996. Own and run Sunna Alaqar Consulting Office (SACO) 2002-now, a consulting office registered at the Engineering Association under No. 938 in Amman. SACO accomplished many Design & Supervision works as main and sub-consultant. Work included Business Development, Accounting, Human Resources, and organization of Files for Income- and Sales Tax.
- 8.2 Architectural Design Department manager at SIGMA Consulting Engineers 2003-2006. Head of Committee for formulating SIGMA's Strategic Plan.
- 8.3 Manager of Dar Engineering Consultants in Riyadh (15-20) Employees.
- 8.4 Trainer at Decentralization Project **مدرّب مدربين بمشروع اللامركزية** Working on VNG International • Netherlands • December 2016 on Local Governance Resilience Programme for the Middle East and North Africa (LOGOREP).

## 9. Professional & Voluntary Membership **العضوية المهنية والتطوعية**

- 9.1 Member of the Jordan Engineers Association (JEA) Architectural Engineering Division since 24/08/1987. Consultant Architect in Urban Design from the Jordan Higher Council for Professional Qualification and Accreditation.
- 9.2 Founder & President of the <http://www.jordanian-forum-for-environmental-planning.org/>
- 9.3 Member of the Association of German Universities Alumni (Vereinigung Jordanischer Absolventen Deutscher Universitäten).
- 9.4 Member of Saudi Council of Engineers.
- 9.5 Head of "Practicing Profession" at the Jordan Engineers Association, starting 19 August 2018. **رئيس لجنة ممارسة المهنة النقابية 2022-2018**
- 9.6 Member of Preparatory Committee for establishing the Engineering Studies & Research Center (ESRC) at the Jordan Engineers Association, August 2018. **عضو اللجنة التحضيرية لإنشاء مركز الدراسات والبحوث الهندسية**
- 9.7 **عضو لجنة الخبراء "مراجعة سياسات وعمليات التخطيط الحضري والعمراني للمدن" المقررة من قبل دولة رئيس الوزراء بناءً على تنسيب وزير الإدارة المحلية**
- 9.8 Board member of the Association of Tafileh citizens living in Amman **عضو هيئة إدارة جمعية أبناء الطفيلة في عمان**



## 10. Conferences المؤتمرات

المتحدث الرئيسي (مندوباً عن مؤسسة الإسكان والتطوير الحضري) وممثلاً للأردن في المنتدى الوزاري العربي الأول للإسكان

متحدث بندوة نظام الأبنية والتنظيم رقم 28 لعام 2018 في أمانة عمّان المنعقدة بتاريخ 14-5-2018

متحدث بالمؤتمر الهندسي الإستشاري الأول المنعقد بعمان نوفمبر 2018 الجلسة الحوارية بعنوان "نظام ممارسة المهنة بين النص والتطبيق" كرئيس للجنة ممارسة المهنة النقابية

متحدث بملتقى المخططين الأردنيين المنعقد بجامعة العلوم والتكنولوجيا بإربد بتاريخ 29-8-2019 ضمن محور التخطيط العمراني وصناعة القرار بورقة بعنوان "التخطيط العمراني والتنمية المستدامة" كرئيس للمنتدى الأردني للتخطيط

متحدث باليوم العلمي المساحي الثاني المنعقد بعمّان بتاريخ 18-9-2021 بالجلسة الحوارية بعنوان "ممارسة المهنة ورئاسة الإختصاص" كرئيس للجنة ممارسة المهنة النقابية

متحدث بالمؤتمر الهندسي الإستشاري الثاني المنعقد بعمان (12-13) 2021 الجلسة الحوارية بعنوان "حماية العمل الهندسي الإستشاري وإستدامته" كرئيس للجنة ممارسة المهنة النقابية.

Speaker at the 2nd Scientific Day on Survey, held in Amman on 18/ 9/ 2021 as Head of the Profession Practice Committee at the Jordanian Engineers Association on Profession Practice and Specialty Head.

Speaker at the 6<sup>th</sup> Jordan International Architectural Conference 29-30/ 6/ 2022 with a paper titled: The Power of Regional Planning in Creating Sustainable Development Area along the Red Sea-Dead Sea Water Canal in Wadi Araba.

Speaker at the 15<sup>th</sup> International Conference on the History and Archaeology of Jordan thoughtful Archaeology in the Ecosphere & Socio-sphere held 2-5 August 2022 at Yarmouk University, Jordan. Paper Title: Turning Amman Downtown into a tourist destination through the Exposure of the Roman Baths at Al-Hashemi Street.

## 11. Profile on Social Network الصفحات على مواقع التواصل الاجتماعي

<https://www.facebook.com/kalaldehy>

<https://www.youtube.com/@muradkalaldehy>, [Murad Kalaldehy - YouTube](#)

[Murad Kalaldehy, Dr.Eng. | LinkedIn](#)

<https://www.instagram.com/alkalaldehy>

<https://twitter.com/Kalaldehy>

## 12. Hobbies and activities الهوايات والنشاطات

Tennis.

Swimming.