

Lama S. Zagha

1. **Nationality** Jordanian
2. **Telephone** 962-797279822
3. **E-Mail** Lzagha@yahoo.com
4. **Education**
 - Ph.D. in Architecture emphasis in Housing and Urban Design, Oxford Brookes University, Oxford, England
October 1999-June 2003
Dissertation: Urban built form and Quality of Life of Low to Middle Income Housing Neighborhoods in Developing Countries: the Case of Greater Amman, Jordan. Supervisors: Professor Mike Jenks, Dr Elizabeth Burton, and Ms Sue McGlynn.
Areas of specialization: Housing delivery and affordability for low and middle income groups, socio-economic assessment, city design and development, sustainable development, transport modeling in cities, and computer simulation of urban development
 - M.Sc. in Building Design with emphasis in CADD implementation (GPA 4.0), Arizona State University, Tempe, Arizona, Aug 1992-June1994, Thesis: A Spatial Information System for Urban Building Complexes. Committee Members: Dr. Patricia McIntosh (Supervisor), Professor Michael Fifield, Mr. B.J. Raval
Areas of specialization: Computer Applications to Environmental Design. Architecture Information Processing Systems, Computer Programming in Architecture, Computer Graphics in Architecture, Contemporary Research, Computer Aided Design, Publishing using HyperCard, Planning Applications of Geographic Information Systems
 - B.Sc. in Architectural Engineering University of Jordan, Amman, Jordan, August 1985- June 1990

PROFESSIONAL CERTIFICATES

- Oxford Brookes University, Oxford Centre for Staff and Learning Development, Oxford, England, October2001 - August 2002.
Certified Associate Teacher in Higher Education; The one-year associate teacher course aims at developing professional skills in learning, teaching and assessing students in higher education.

5. Membership in Professional Organizations

- Member in the Central Body of Jordan Engineers Association, from March 2015 till March 2018, by election
- Board Member, Jordanian Planning Forum, March 2017- Present
- Board Member (Provisional), Jordanian Planning Forum, 2014- March 2017
- Member in the Jordanian Engineers Associations - Architectural Division
- Member in the Jordanian Architects Society, 2015 - Present
- Member in the Jordan Green Building Council (JGBC)
- Member in the National Environment and Wildlife society (NEWS), Amman, Jordan
- Member in the Royal Society for Conservation of Nature (RSCN), Amman, Jordan
- Member in the advisory board for the International Urban Planning and Environment Association (IUPEA)

6. Countries of Work Experience

Jordan, USA, UK

7. Languages

	Reading	Speaking	Writing	High 5, low 0
Arabic	5	5	5	
English	5	5	5	
French	3	2	2	

Key qualifications

More than 27 years' experience in architecture, urban planning & design and management. Experience in Organization Development including strategic planning, strategic performance, management systems,

technical development, training, organization culture, cooperate social responsibility, branding and communication.

Designed wide range of projects: neighborhoods planning & design, university campus planning and design, school planning and design, public buildings (training centers, workshops, motels, bakeries), motels, mixed used projects, commercial retail and offices. Dr Zagha has worked for both the government and the private sector in Jordan and the US. She is knowledgeable in development and implementation of green buildings concepts and conversant with the value engineering process.

Dr Zagha has in-depth knowledge in management, design and coordination between all engineering disciplines. Moreover, she has experience in project management which includes: planning the project, leading the project team, managing quality, project scheduling and communications in addition to ensuring that the project deliverables comply with the project scope, contract and design standards.

Dr Zagha prepared design processes and quality control manual for AJ and document management process manual. She is in charge of all technical development initiatives atAJ.

Dr Zagha is acquainted in conducting research studies and proposals, writing up reports as well as performing quantitative and qualitative analysis through questionnaires and interviews. She has excellent communication skills both in Arabic and English.

Dr Zagha has written research on sustainability in the built environment and has participated in different workshops related to Green Cities (Sustainability cities) which were conducted by local authorities, private industries and donors. She has taught at Al Al-Bayt University and at the Applied Science University and has published several articles in professional journals which addressed urban issues such as built environment including land use, regulations and high rise developments.

KEY MANAGEMENT, DESIGN AND ACADEMIC QUALIFICATIONS

Organization Development Role

Streamline organization strategy with process, people and systems to ensure leadership vision is reflected in the organization and enhance organization growth. Provide technical direction for the development of company policies and technical processes. Lead the process of establishing design processes, document management systems and knowledge management. Apply significant knowledge of industry trends and developments to improve services to our clients. Creates and executes initiatives and revise as appropriate to meet changing needs and requirement. Ensures technical teams are contributing to process documentation. Work on the preparation of Design Process & Quality Control Manual, Training Policy and others, Training Procedures, Design Guidelines, Document Management System Manual and Knowledge Management. Provide guidance on CAD standards.

Technical Design Role

Lead the architecture, planning and design activities including coordination for all inter-related activities. Provide leadership in project design, production and management. Review and assess existing data & complete plans pertaining to urban developments and prepare planning and design reports. Supervise planning and design team. Assist in marketing by preparing project scopes and efforts. Perform performance review.

Professional experience in designing projects of different sizes and types, located in Jordan, Middle East and USA. The architectural design services were for public and private agencies. The services included land use planning, design and/or renovation for various projects, preparation of architectural designs, architectural details and construction documents. In addition to checking designs and construction documents for their compliance with ADA, local zoning and building ordinances and proposing land use plans and regulations.

Academic Role

Academic experience in instructing the following courses for undergraduate students in Architecture: Architectural Design for all years (1st till 5th year), Architectural Basics and Design, Computer Aided Design, Freehand Sketching, Graduation Thesis, Graduation Architectural Design Project, History of Islamic Architecture, Building Construction, Building Legislations, Theories of Housing and Urban Design and Urban Planning.

Employment Record:

4/2016 – Present	UNOPS Senior Infrastructure Advisor (Consultant – Retainer)
4/2017 – Present	Freelancer Clients Dar Al Omran (Master Planner for the Dry Port in Ma'an) North Development Corporation (Design Reviewer and Technical Advisor for Irbid Development Area) The Hashemite Fund for Development of Jordan Badia (Master Planner for Livestock Assembling Center in Mohamadiya – Ma'an, Jordan) (7/2016-12/2016)
4/2014 – 3/2017	Arabtech Jardaneh Engineers and Architects - Amman/Jordan Organization Development Manger
6/2012 – 4/2014	Arabtech Jardaneh Engineers and Architects - Amman/Jordan Sr. Principal – Technical Development Office
7/2011 – 6/2012	Arabtech Jardaneh Engineers and Architects - Amman/Jordan Principal Architect– Urban Planning & Infrastructure and Head of Technical Development Unit
7/2010 – 7/2011	Arabtech Jardaneh Engineers and Architects - Amman/Jordan Principal Architect– Urban Planning & Infrastructure
6/2009 – 7/2010	Arabtech Jardaneh Engineers and Architects - Amman/Jordan Acting Principal Architect– Urban Planning & Infrastructure
7/2008 –6/2009	Arabtech Jardaneh Engineers and Architects - Amman /Jordan Project Manager
3/2007 – 6/2008	Al Albayt University, Mafraq, Jordan Project Manager
2/2004 – 9/2008	Al-Albays University, Institute of Architecture and Islamic Arts Assistant Professor
2/2003 - 2/2004	Al-Albays University, Institute of Architecture and Islamic Arts Lecturer (part timer)
10/1999 - 6/2003	Oxford Brookes University - Oxford, England PhD Researcher
9/1997 - 3/1999	Omrانيا & Associates Senior Architect
7/1995 – 9/1997	Applied Science University/College of Engineering/ Department of Architecture Lecturer
4/1995 - 8/1996	Lama Zagha Engineering Office Director
7/1994 - 3/1995	Jacobs-Sirrine Engineers - Phoenix, Arizona Designer
9/1993 - 7/1994	Facilities Planning and Construction/ Campus Planning, Arizona State University, Tempe, Arizona. Designer
9/1993 - 5/1994	Information Technology, Arizona State University - Tempe, Arizona Computer Assistant
3/1992 - 8/1992	Ramahi Masri and Associates – Amman, Jordan Architect Engineer
10/1991 - 3/1992	Arkadia Consulting Engineers, Amman-Jordan Architect Engineer
8/1990 - 10/1991	Ruken Al-O'rdon Bureau, Amman-Jordan Architect Engineer

Detailed Experience

4/2016 - Present

UNOPS

Senior Infrastructure Advisor – Urban Planning (Consultant - Retainer)

Consultant for UNOPS Project entitled construction of 2 administrative towers for Islamic Development Bank regional hub in Dakar, Senegal (8/10/2018 – 18/10/2018)

Prepared scoping mission report, cost estimate for 2 scenarios, terms of reference for feasibility study, approach, and timeline for the development of two towers in the Plateau area in Dakar. Two scenarios are proposed: scenario one of two towers of 11 floors with footprint of 600m² each (1200 for the two towers) along with two underground floor parking, a total built up area of 19,524m². The second scenario of two towers (600m² each), one 19 floors and the other 25 floors with 3 underground floor parking, a total area of 35,886m².

4/2017 - Present

Freelancer – Consultancy Works**Master Planner for Dar Al Omran Project entitled Dry Port in Ma'an, Jordan (2/2018 – 6/2019)**

Prepared the Dry Port Master Plan for Aqaba Development Corporation (ADC). The site is 450.4 hectares in Ma'an. It is the destination of all imported containers and transit of Jordan; 90% of containers reaching Aqaba Terminal Company will be residing in Ma'an Port. The main transportation mode is via rail network; 90% of containers will be transported via railway and 10% via road network. The master plan include different uses such as administration, warehouses, quarantines, inspection yards, stacking yards, gas stations , train repair station, logistics and parking.

Design Reviewer and Technical Advisor for North Development Corporation Project entitled Irbid Development Area, Irbid, Jordan (Mar 2018 – Sep 2018)

Reviewed and provided technical advices for Irbid Development Area Master Plan prepared by HOK for the North Development Corporation (NDC). The site area is 215 hectares located in Irbid, north of Jordan. The site contains different uses such as residential, administration, hotel, higher education, pharmaceutical, IT, healthcare, mixed use, schools, retails and mosques.

Master Planner for The Hashemite Fund for Development of Jordan Badia

Consultant for the "Livestock Assembling Center in Mohamadiya – Ma'an, Jordan". Prepared the Livestock Assembling Master Plan and the Development Manual for 1873 Dunums in Mohamadiya – Ma'an, Jordan (7/2016 – 12/2016). The Client is Khayrat Belady Company for Agricultural Projects Management.

4/2014 –3/2017

**ArabtechJardaneh Engineers and Architects
Organization Development Manager**

Assist in setting and developing strategic and annual plans for the company

Overview the issuance of all documentations related to business plans and strategies.

Align business activities and initiatives with the balanced scorecard based strategy.

Review all changes to policies, statements of functions, job descriptions, systems, procedures, manuals and forms within the company as they relate to the company's QHSE (Quality, Health, Safety and Environment).

Ensure the QHSE Management Systems' requirements are met and well implemented.

Assist in specifying the business requirements for automation of all the company's operations.

Attend the Executive Review Meetings and ensure proper recording and follow up on action items.

Promote the culture of excellence and implement excellence principles on the company's operations. In addition to overseeing the efforts in applying for excellence awards and programs such as King Abdullah II Award for Excellence.

Monitor services to ensure optimum client satisfaction.

Promote corporate culture through managing corporate events such as State of the Company, Retreats and Annual Planning Sessions, in addition to structuring corporate talent management programs.

Enhance Risk Management approach and framework.

Ensure the proper implementation of corporate social responsibilities program as per the policy.

Monitor efforts to develop corporate and group brand through supporting brand promise, vision, and position.

Monitor efforts to develop and maintain the company's website, online presence and external communication protocols.

Manage all internal and external trainings of the organization

Promote and coordinate technical knowledge harvested within the organization

Prepared and reviewed assessment reports for the project entitled "Learning Environment: Improved Infrastructure Program, funded by USAID Jordan. This entailed assessing the existing conditions of several public schools and provided recommendations for improvements.

Assign training budgets for technical departments.

Monitor daily departmental activities to ensure tasks are met.
Conduct employee performance reviews

6/2012 – 4/2014

**ArabtechJardaneh Engineers and Architects
Sr. Principal of Technical Development Office**

Establish initiatives and development plans for the Technical Development Office.
Implement plans for the Technical Development Office.
Review and evaluate proposals and reports.
Prepare technical proposals for different types of projects
Prepare various types of reports.
Establish Design Process and Quality Control Process Manual.
Establish design guidelines.
Establish contracts guidelines
Establish specifications guidelines
Prepare annual training budgets for the departments.
Develop training policy and procedure
Prepare document management system manual
Establish knowledge management system
Train and build competencies of technical staff through in-house and out-house training
Supervise the work of the department and oversee the daily functioning of the office.

7/2011 – 6/2012

**ArabtechJardaneh Engineers and Architects
Principal Architect– Urban Planning & Infrastructure and Head of Technical Development Unit**

7/2010 – 7/2011
6/2009 – 7/2010

**Principal Architect– Urban Planning & Infrastructure
Acting Principal Architect– Urban Planning & Infrastructure**

Manage all Urban Planning and Design projects which include: communications, work plan, coordination with the clients, follow up with the team leaders, correspondences, submittals, risk management, cost management, scope management, resources management and quality management
Lead the project planning and design activities
Lead design members to ensure that projects are accomplished effectively.
Prepare estimates of professional efforts during the proposal preparation stage
Prepare technical reports ensuring that the recommended technical solutions are practical.
Prepare technical proposals for different types of projects

The projects that I worked on are:

CADDY in Tla' Ali and Tabarbour (Retail Centers) (May 2011-May 2012)

Client: Sama for Investments and Trading Depots

Project Control Manager, Design Advisor, Technical Reviewer for Tla' Ali and Tabarbour

Retails, 11,400m² and 7,000m². Tla Ali site area is 3,000 m² and includes 2 basements for car parking, ground floor for retail, and first floor for food court and second floor for home department. Tabarbour site area is 5,000m² and includes 1 basement for car parking, ground floor for supermarket, fast food, pharmacy and bakery.

Madinat Al Qamar Project, Jericho, Palestine (Oct 2010, March 2012)

Client: Amaar Group

Project Design Leader and Manager for Madinat Al Qamar master planning and design works for all the stages of the project from concept to construction documents. The site area is 553 dunums in the Jericho city. The master plan includes public areas (playgrounds, market place, mosque, and open spaces), agricultural areas, medical center, hotel and residential facilities.

MarsaZayed Project, Aqaba-Jordan (June 2009-June 2011)

Client: Al Maabar International Investments

Design Advisor and Technical Reviewer and Manager for MarsaZayed master planning and landscaping works for all stages of the project (concept to construction documents). Reviewed all the architectural and landscaping works and provided technical inputs on the same. Participated in the preparation of value engineering studies for the landscaping works. The site consists of 3200 Dunums with 6,400,000m² of built up area. It consists of the following uses: residential, retail, civic, office, recreation, hotels, cruise ship terminal, high rise mixed use developments, bus terminal and yacht berths. The total residential population is 53,740 and the estimated daily population is 104,228.

King Abdullah II Mix Use Development, Amman – Jordan (Oct 2008, 2012)

Commercial Retail, Offices, Hotel, Apartments

Client: Al Deera Investments & Real Estate Development Co.

Design Advisor and Technical Reviewer and Manager of the architectural design for the concept and schematic stages. Prepared monthly progress meeting, develop budget forecasts of manpower and operating expenses, review product lines and make recommendations.

King Abdullah II Mixed Use Development, which consists of commercial retail restaurants, hypermarket and offices in Dabouq, Amman. The land area is 7,019m² and the total built up area of 55122m² with 11 floors (4 floors commercial, 3 floors offices, 1 floor hypermarket and 3 floors parking). The commercial building includes commercial retail spaces of 10,400m², restaurants of 2800m², offices of 9,700m², one below grade hypermarket of 3,300m², and parking of 21,000m². The estimated construction cost for the overall project is 63,750,000 USD.

The service apartments and hotel is located on a site of 10,623m² with a built up area of 44,014.8m². The hotel area is 20,600m² on 7 floors. It consists of 264 guest rooms (suites 20 room, 244 standard rooms), fitness center, restaurants, back of house offices. The service apartment's area is 9,000 m² on 5 floors. It consist of 75

apartments (70 one bedroom and 5 two bedrooms). The parking area is 4,000m². The estimated construction cost for the overall project is 39,000,000 USD.

7/2008 – 6/2009

**ArabtechJardaneh Engineers and Architects
Project Manager**

Managed projects, which included developing project planning, scheduling, resource planning, risk planning, team organization, client management, quality management, and communication and time management. Following are the projects that were managed:

MarsaZayed Project, Aqaba-Jordan

Client: Al Maabar International Investments (August 2008, April 2009)

Managed the project and reviewed architectural master planning works. The scope of the consultancy services for this study includes:

- a) Master Plan for 3200 Dunums in Aqaba, Jordan. The total built up area is 6,403,390 sq.m. It consists of the following uses: residential, retail, civic, office, recreation, hotels, cruise ship terminal, high rise mixed use developments, bus terminal and yacht berths. The total residential population is 53,740 and the estimated daily population is 104,228.
- b) Infrastructure networks (water, waste water, electricity) and road designs
- c) Traffic management study
- d) Marina infrastructure studies
- e) High level technical evaluation study for utility tunnel, district energy, gas network
- f) Solid Waste Management Study

The project comprises these stages: concept design, schematic design, and detailed design.

Nikki Beach Hotel & Resort, Aqaba –Jordan

Client: Saraya Aqaba

Managed reviewed and provided technical inputs pertaining to the conceptual architectural works of the hotel. The project services comprise the following:

- a) Architectural design for the hotel and the resort, total area around 48000m² on 20,000m² plot.
- b) Interior design and landscape design
- c) Civil, structure, mechanical, plumbing, and electrical design
- d) Specifications and quantity surveying
- e) Cost and budget control
- f) Traffic impact/ parking study
- g) Supervision of construction team

The project comprises these stages: programming, concept design, schematic design, design development, construction development and tendering.

King Abdullah II Mix Use Development, Amman – Jordan

Client: Al Deera Investments & Real Estate Development Co.

Managed, reviewed and provided technical inputs on the conceptual and schematic architectural works of the project. The project consists of: commercial, offices, apartments and hotel. The total area of the project is around 94,000m² on 17,642 m² plot.

The project services include: Architecture, structure, mechanical, electrical and cost estimates for the conceptual design and schematic stage.

3/2007 – 6/2008

**Al Albayt University, Mafraq, Jordan
Project Manager**

Managed and worked on the preparation of the Master Plan for Al-albayt University

9/1997 - 3/1999

**Omrانيا& Associates
Senior Architect**

Worked on developing architectural drawings and details for educational and residential projects.

Coordinated drawings among all engineering disciplines to assure their compliance with the Building design and assured that all drawing sheets were created.

Ensure that the overall deliverables per stage are in accordance with the scope.

Developed and updated Omrania AutoCAD Manual.

Following are the projects that I worked on their architectural designs.

Kingdom School, Riyadh, Saudi Arabia

Client: Kingdom Holding Company

Worked on planning and design of the Kingdom School. Produced architectural drawings and details. Managed the planning and design process including coordinating with all engineering disciplines and sub consultants. Checked building design compliance with codes, regulations and standards.

Kingdom Academy was carried out in association with the educational consultant ATS&R of the US. The project comprises a private campus to cater 3500 pupils at all levels from kindergarten through secondary school. These schools share a mosque, tennis and basketball facility as well as a central facility building that includes the administration offices and an auditorium of 820 seats. The total built-up area of all buildings is about 58000 m2. The site occupies a 140000 sq. m in Rabea District of Riyadh. The estimated cost of the Kingdom Academy construction is \$70 million. Alshathry villa is a project of 3842m2 located in Saudi Arabia. It comprises a large multi purpose hall in the basement, spacious halls in the ground floor, bedrooms in the first floor as well as a penthouse. The site area is 3360 sq. m. The estimated construction cost of the project is about \$10 million.

Alshathry villa, Riyadh, Saudi Arabia

Client: Al shathry

Worked on producing architectural drawings and details. Coordinated drawings with all disciplines.

Alshathry villa is located in Saudi Arabia on a site of 3842m2. It comprises a large multipurpose hall in the basement, spacious halls in the ground floor, bedrooms in the first floor as well as a penthouse. The site area is 3360 sq. m. The estimated construction cost of the project is about \$10 million.

4/1995 - 8/1996

**Lama Zagha Engineering Office
Director**

Designed several residences in Jordan. Managed the architectural office, met with customers to discuss with them their needs and the design of their residences

7/1994 - 3/1995

**Jacobs-Sirrine Engineers - Phoenix, Arizona
Designer**

Developed designs and construction documents for a very complex industrial project

for TRW (5,000 m²). Performed designs for offices, laboratories, and manufacturing spaces for Allied Signal. TRW and Allied Signal are corporate clients located in Phoenix-Arizona. Major Allied Signal projects include: Building 158 career center (1,500 m²), office move from 158/1207 to 404-2 (1,600 m²), evacuation plans for area 1401, spares administration temporary move for building 2103-3 (1,400 m²), building 301-1 collocation (2,000 m²).

Visited project sites and documented as built conditions and drawings as well as quantity take-off.

Met with the clients to discuss the design requirements and specifications.

Produced architectural drawings and specifications using AutoCAD 12.

9/1993 - 7/1994
University,

**Facilities Planning and Construction/ Campus Planning, Arizona State
Tempe, Arizona.**
Clerk III/ Designer

Prepared master plan drawings and perspectives using AutoCAD 12 including design details of university structures, landscape, disabled accessibility and remodel interior office spaces.

Checked existing building and parking layouts for their compliance with ADA. Major projects included Accounts payable office move (500 m²), Ritter building office move (15,000 m²), accessibility for Grady Gammage site plan (\$150,000) and for parking structures Nos. 2, 3, and 5, accessibly seating for Grady Gammage auditorium (\$200,000).

9/1993 - 5/1994

Information Technology, Arizona State University - Tempe, Arizona
Computer Assistant

Managed the central computing facility at ASU including site activities, hardware, softwares and network changes.

Assisted customers with software and hardware problems, and directed them in choosing the appropriate computing tools to meet their requirements.

3/1992 - 8/1992

RamahiMasri and Associates – Amman, Jordan
Architect Engineer

Designed buildings, houses, and stores. Prepared architectural documents using AutoCAD 11. Supervised one draftsman in the production of the construction documents. Responsible for checking existing and/ or proposed building layouts for their compliance with the zoning ordinances. All the projects mentioned above were constructed for private ownership in the city of Amman-Jordan. In addition, the project areas vary in size from 400 m² to 5,000 m².

10/1991 - 3/1992

Arkadia Consulting Engineers, Amman-Jordan
Architect Engineer

Designed and developed variety of projects for the Amman County. The projects were: Hotel in Aqaba (area 1,500 m²), bakery workshop in Yajooz and EinAlbasha (each 500 m²), training center renovation in Almanara (300 m²).

Produced perspective drawings for the Ruwashid border custom in Jordan

Performed several site visits and attended different meetings with the Amman

County engineering specialists in order to achieve the required design specifications

Supervised two draftsmen in the creation of the construction documents and specifications

8/1990 - 10/1991

**Ruken Al-O'rdon Bureau, Amman-Jordan
Architect Engineer**

Responsible for designing and planning of various building projects, offices, stores, and houses.

Reviewed architectural documents to assure that proposed buildings follow the zoning ordinances and the building codes.

Supervised two architects and one draftsman in the production of the construction documents.

All the projects mentioned above were constructed for private ownership in the city of Amman-Jordan. In addition, the project areas vary in size from 250 m² to 4,000 m².

Academic Experience

2/2004 – 9/2008

**Al-Albait University, Institute of Architecture and Islamic Arts
Assistant Professor**

Taught different courses. Developed course curriculum.

2/2003 - 2/2004

**Al-Albait University, Institute of Architecture and Islamic Arts
Lecturer (part timer)**

10/1999 - 6/2003

**Oxford Brookes University - Oxford, England
PhD Researcher**

Carried out research on Built form and quality of life in low to middle income housing neighborhoods in Greater Amman, Jordan. The research covered sustainable approaches related to the built environment.

Performed socio-economic, physical, and spatial assessment of the built form

Conducted questionnaires and interviews to assess residents' attitudes towards their dwellings and the area they live in

1/2000 - 9/2000

**Jordanian Engineering Association - Amman, Jordan
Lecturer (part timer)**

Instructed introductory courses in two-dimensional AutoCAD 14 as well as advanced courses in three-dimensional AutoCAD 14 and 3D Studio Max 3. The first course aims to develop the skills of architects, engineers, and planners in creating two dimensional construction drawings including details, whereas the second course aims to develop their skills in creating three-dimensional models and enhancing them in 3D Studio Max through the addition of materials, lights, cameras, and motion.

6/1995 - 8/1997

**Department of Architecture/ College of Engineering, Applied Science University - Amman, Jordan
Lecturer (part timer)**

Instructed Computer in Architecture (summer course) which concentrates on developing students' skills in preparing three-dimensional models using AutoCAD 14

7/1995 - 9/1997

Department of Architecture/ College of Engineering, Applied Science
University - Amman, Jordan
Lecturer

COURSES TAUGHT

- **Introduction to the Architectural Design (1,2)**, (first year), is an introductory course to acquaint the students with the vocabulary of architecture and design processes
- **Freehand sketching 2**, (first year) architectural students, it deals with the techniques of photography, as well as methods and materials needed in creating models and presenting and rendering architectural objects.
- **Architectural Design (1,2)**, studio design courses for the second year architectural students.
- **Architectural Design (3,4)**, studio design course for third year architectural students
- **Architectural Design (6)**, studio design course for fourth year architectural students
- **Architectural Design (7)**, urban design studio course for fifth year architectural students
- **Theories of Urban Design and Housing**, covers urban design principles and housing delivery locally and internationally. This course is taught for fifth year architectural students
- **Building Legislations**, covers laws and regulations that govern the building construction in Jordan. This course is taught for fourth year architectural students
- **Professional Practice** (third and fourth year), covers the professional, organizational, legal and administrative factors that organize the relationship between the architect and different bodies and agencies concerned with the building process.
- **Working Drawings** (third year), deals with the knowledge and training necessary to produce a complete set of working drawings.
- **History and Theory of Architecture 3**, (third year), covers the history of Islamic architecture over the periods: Early Muslim Architecture, Umayyad, Abassi, Andalusia, Fatimids, Seljuk and Ayyubid Architecture, Mamluk, Moghul and Ottoman
- **Graduation Thesis**, supervise fifth year students in writing up their graduation thesis
- **Graduation Project**, supervise fifth year students in designing their final year project (the Hashemite Central Library in Al-albait University, 2005-2006; Creative Art Center in Amman, Jordan, 2006-2007; Conference Center in Petra, 2007-2008).
- **Building Construction (1)**, (second year) the course covers the beginning stages of construction.
- **Computer Drawing (1)**, (second year), it is an introductory course to introduce the students to computer aided design (CAD) software used for preparing architectural designs and construction document. It will enable the student to simulate entire design projects by the computer. This training will be consolidated through suitable architectural exercises conducted through the AutoCAD software on the Pc platform.
- **Computer Drawing (2)**, (second year), the course introduces the students to more advanced techniques in CADD including creating three dimensional architectural projects in AutoCAD and enhancing them in 3D Studio Max through the addition of materials, lights, cameras, and motion.
- **Drafting and Designing using Computer**, (3rd year), this course for the interior design students to acquaint them with the basics of drafting and producing three dimensional interiors using AutoCAD.

ADMINISTRATIVE TASKS

- Member of the Strategic Performance Executive Committee, ArabtechJardaneh Engineers and Architects, (June 2009-March 2017).
- Member of the Building Performance Executive Committee, ArabtechJardaneh Engineers and Architects, (June 2009-March 2017).
- Member of the Support Performance Executive Committee, ArabtechJardaneh Engineers and Architects, (June 2011-March 2017).
- Member of the Leadership Committee, ArabtechJardaneh Engineers and Architects, (June 2011-March 2017).
- Member of the Institute Council, Institute of Architecture and Islamic Arts, Al-albait University (February 2004-July 08)

- Secretary of the Institute Council, Institute of Architecture and Islamic Arts, Al-albays University (September 2006-September 2007). Responsibilities include writing minutes of meeting and followed up tasks to be performed by community members.
- Member of the Journals' committee, Scientific Research Deanship , Al-albays University (September 2005-September 2007)
- Head of the budget committee, Institute of Architecture and Islamic Arts, Al-albays University (September 2005- July 08)
- Head of the library committee, Institute of Architecture and Islamic Arts, Al-albays University (February 2004 – July 08)
- External Juror for design projects, The Department of Interior Design, School of Architecture, Petra University, Jordan (January 2007- July 08)
- Representative of the Institute of Architecture and Islamic Arts at the University Council, Al-albays University (September 2005 –September 2006)
- Member of the curriculum committee, Institute of Architecture and Islamic Arts, Al-albays University (February 2004– July 08)
- Member of the budget committee, Institute of Architecture and Islamic Arts, Al-albays University (February 2004 – September 2005)
- Member of the scientific research committee, Institute of Architecture and Islamic Arts, Al-albays University (February 2004 – July 08)
- Academic advisors for the students in the Institute of Architecture and Islamic Arts (February 2004-present)
- External Juror for design projects, The Department of Architecture, University of Science and Technology, Jordan (February 2004- July 08)
- Member of the computing committee, Department of Architecture, Applied Science University (October 1995- October 1997)
- Member: Department of Architecture Library Committee, Applied Science University (October 1995- October 1997)
- Prepared and evaluated specification tenders for Mac & PC computers and peripherals for the architectural computer labs, Faculty of Engineering, Department of Architecture, Applied Science University (October 1995- October 1997)

PRESENTATIONS

“Quality Control and Assurance at ArabtechJardaneh”, presented in a workshop on **Quality Assurance Practices in the Field of Engineering**. Architectural Engineering Business Council, Amman, Jordan, 25 November 2014

“The impact of High Rise Mixed Used Developments on the Urban Setting: The Case of Amman, Jordan”, paper presented on **The Fourth Architectural Conference: High Rise Buildings**, Jordan Engineers Association, 11 June 2008.

“Do Current Planning Regulations Achieve Good Quality Neighborhoods? The Case of Amman, Jordan”, paper presented on the **Housing Symposium 3: Neighborhoods are more than houses**, High Commission for the Development of Arriyadh, Arriyadh, Kingdom of Saudi Arabia, 21 May 2007.

‘Urban built form and quality of life of low to middle income housing neighborhoods: The Case of Abu Nuseir, Greater Amman- Jordan’, paper presented at the 5th symposium of the International Urban Planning and Environment, Creating sustainable urban environments: future forms for city living, Oxford, England, 23-26 September 2002

‘Low income housing in Amman - Jordan’, presentation to the Postgraduate Research School), Oxford Brookes University, Oxford, 11 November 1999

CONFERENCES

The First Engineering Consulting Week: The Consulting Work between Current Burdens and Future Aspirations, Holiday Inn Hotel, Amman, Jordan, Organized by **Jordan Engineers Association and Gulf Engineering Union**, Amman, Jordan, 12-14/11/2018.

Workshop and Symposium on Professional Accreditation for Engineers, organized by **Jordan Engineers Association**, Landmark Hotel, Amman, Jordan, 25-26/3/2015.

Excellence in Practice Day, organized by **King Abdullah II Center for Excellence in cooperation with the European Foundation for Quality Management (EFQM)**, Sheraton Hotel, Amman, Jordan, 15/12/2015

Rationalizing of Energy Consumption is First, Jordan Europe Business Association JEBA & Embassy of the European Union in Jordan, Le Meridian Hotel, Amman, Jordan 17-18/6/2013.

Esri Local User Conference, organized by Infograph, Sheraton Horel, Amman, Jordan, 7-8/11/2012.

Think Green 4, organized by Jordan Green Building Council, Sheraton Hotel, Amman, Jordan, 5-6/3/2012.

Marine and Coastal Engineering - Delivering environmentally sustainable, high quality and cost effective marine and coastal projects, **International Quality and Productive Centre (IQPC) and AQABA DEVELOPMENT CORPORATION**.

Arab Women Engineers Achievements and Challenges, The Jordan Engineers Association with the cooperation of the Union of Arab Engineers, Landmark Hotel, Amman, Jordan, 12-14 October 2010.

Integraing Renewable Energy in Architectural Design, The German Jordanian University/ Architecture Department, The Jordan University/ Energy Center, the Goethe InstitutJordanien, the VereinigungJordanischerAbsolventenDeutscherUniversitaeten and ProgrammRueckkehrendeFachkraefte, Royal RoyalScientic Society, Amman, Jordan, November 19 2009.

Housing Symposium 3: Neighborhoods Are More Than Houses, High Commission for the Development of Arriyadh, Arriyadh, Kingdom of Saudi Arabia, 20-23 May 2007.

Engineering Education, Jordan Engineers Association and Arab engineers Union (The twenty fourth Arab engineering conferences), Amman, Jordan, 4-6 May 2007.

Third Conference of Scientific Research, Friends' Scientific Research Society in Jordanian Universities, The Jordan University, Amman, Jordan, November 12, 2005

Architecture Education Symposium, Engineering Association with cooperation of The Arab Architecture Union, Jerusalem Hotel, Amman, Jordan, December 20, 2005

'Online learning here and now', (2 biennial Brookes virtual conference), Oxford Brookes University, Oxford, England, 12 July 2002

'Performance indicators for urban sustainability' (conference organized by RICS Foundation), London, England, 3 July 2002

'Reversing unsustainable Urban Development: How do We Correct the Mistakes of the 60s, 70s and 80s?' (attended the conference and written a paper for RUDI, the Resource for Urban Design Information, summarizing research and projects covered in the Landor conference), London, England, 8 March 2002

'Architecture and Environment: Towards Environmentally Sustainable Architecture' (second Jordanian Architectural Conference prepared by the Jordan Engineers Association), Amman, Jordan, 26-28 September 2000.

'Contemporary Arab: Islamic Architecture the Crisis of Identity', (first Jordanian Architectural Conference prepared by the Jordan Engineers Association), Amman, Jordan, 7-10 September 1998.

SEMINARS

Smart Cities between Theory & Implementation, Jordan Engineers Association, 18/12/2018

Top-Down Budgeting Made Easy – Part 1, PSMJ, on-line, 17/9/2015

Top-Down Budgeting Made Easy – Part 2, PSMJ, on-line, 24/9/2015

If I Had Only Known How to Avoid Bad Hires, PSMJ, on-line, 8/9/2015

The Top Ten Pitfalls in M&A – And How to Avoid Them, PSMJ, 16/6/2015

Introducing FIDIC Contracts, Roles and Principles, FIDIC, on-line, 18/3/2015

Metal roofing Systems: Making Sense of a World of Choices, Architecture Metal Roofing: Designing for Long Term Performance, McGraw Hill construction, on-line, 17/11/2013

Continuous Insulation and Air Barriers for High Performance Framed Wall Assemblies, Dryvit, USGBC Education, on-line, 30/10/2013.

Implementation of Los Angeles Green Building Code (seminar presented by Osama Younan), organized by Architects and Engineers Business Council AEBC, AEBC, Amman, Jordan, 17/7/2013

Transportation in Jordan (seminar presented by Dr Ayman Smadi), organized by Jordan Green Building Council (JGBC), JGBC, Amman, Jordan, 7/7/2013

Know your personality profile (seminar presented by Competence Management Consulting (CMC), Organized by Architects and Engineers Business Council AEBC, AEBC, Amman, Jordan, 4/6/2013

Innovation: The Pathway to Competitiveness and Prosperity, organized by the USAID, Sheraton Hotel, Amman, Jordan, 26/4/2011.

Implementation of the Los Angeles Green Building Code, (seminar presented by Osaman Younan – LOS Angeles Department of Building and Safety) organized by AEBC, Amman, Jordan, 17/7/2013

'Grey Water Recycling Plant' (seminar organized by Jordan Engineers Association and GTZ). Dead Sea Hotel. Dead Sea, Jordan, 10 July 2010.

'The financial factors, marketing and consumer demand affecting higher environmental standards', (sustainable housing forum seminar organized by Town and Country Planning Association – planning for people and places in the 21st century), London, England, 25 June, 2002

'Ayuthaya – world heritage site: a living historic city in Thailand' (seminar presented by Doodadee Thaitakoo), Postgraduate Research School, Oxford Brookes University, Oxford, England, 13 June, 2002

'Improving your research profile: lessons from RAE', (seminar presented by Professor Mike Jenks and Dr Katie Williams), Oxford Center for Sustainable Development, Oxford Brookes University, Oxford, England, 6 June, 2002

'Complexity and architecture', (seminar presented by Andrea Placidi), Postgraduate Research School, Oxford Brookes University, Oxford, England, 23 May, 2002

‘Constructing the semiotic and syntactic structures of forms: villa design in west Amman’ (seminar presented by DrShathaMalhis), Postgraduate Research School, Oxford Brookes University, Oxford, England, 2 May, 2002

‘Industrial Funding in Research’, (lecture presented by Professor Ray Oden and DrSamahaBaiche), Oxford Brookes Center for sustainable Development, Oxford, England, 14 February, 2002.

‘Urbanization in Corridor Development’ (seminar presented by Henri Comrie), Joint Center of Urban Design, Oxford Brookes University, Oxford, England, 21 February, 2002.

‘Achieving the sustainable Development of Brownfield Sites’ (lecture presented by Dr Carol Dair), Oxford Brookes Center for sustainable Development, Oxford, England, 31January, 2002.

WORKSHOPS

An Overview on Reviving the Old Historical Cities, organized by Jordan Engineers Association, The Jordasn Museum, 28-29/11/2015.

Launching of Green Building Guidelines, organized by Ministry of Public Works and Housing and Jordanian National Building Council, Intercontinental Hotel, Amman, Jordan, 3/9/2015

Energy Sector Women’s Leadership forum, organized by USAID Energy Sector Capacity Building (ESCB), Sheraton Hotel, Amman, Jordan, 20/5/2015.

Workshop and Symposium on Professional Accreditation for Engineers, organized by **Jordan Engineers Association**, Landmark Hotel, Amman, Jordan, 25-26/3/2015.

Excellence in Practice Day, organized by **King Abdullah II Center for Excellence in cooperation with the European Foundation for Quality Management (EFQM)**, Sheraton Hotel, Amman, Jordan, 15/12/2015

Innovation Accelerator Workshop – Energy Efficiency, organized by USAID Jordan Competitiveness Program, King Hussein Park, Amman, Jordan, 3-6/2/2014.

King Abdullah II Excellence Award, organized by **King Abdullah II Center of Excellence**, MillenniumHotel, 23-24/9/2014.

The Use and Installation of Solar Heaters and Thermal Insulation Materials in Residential Buildings, Geneva Hotel, Amman, Jordan, 23/1/2015.

Gender Diversity Competition, organized by Econowin and GIZ, Century Park Hotel, Amman, Jordan, 5/12/2013

Project Management for Offices and Engineering Firms, organized by Jordan Engineers Association, Jordanian Engineers Building, Amman, Jordan, 30/6/2013

Women Engineers and the Talents of Dealing with Different Media, organized by Jordan Engineers Association, Jordanian Engineers Club, Amman, Jordan, 6/4/2013.

The Practical Use of FIDIC Conditions of Contracts, organized by Jordan Engineers Association, Engineers Training Center, Architects/Engineers Buisness Council, 17-18/3/2013

BIM Workshop, organized by Jordan Engineers Association, Amman, Jordan, 18/1/2012

Solar Water Heaters and Enforcement of Related Codes, organized by the USAID Public Action for Water, Energy and Environment Project, Royal Scientific Society (Hashemite Theatre), 7/5/20-15.

Practical Steps towards Designing Sustainable Schools in Jordan, organized by A/E Business Council and Ministry of Public Works, Ministry of Public Works, Amman, Jordan, 5/5/2011.

Landscape in water scarcity, organized by Jordan Engineers Association (JEA), JEA, Amman, Jordan, 9/4/2011.

Sustainability in the Construction Industry, organized by The American University in Cairo and Jordan Green Building Council, Colombia University Middle East Research Center (CUMERIC), Amman, Jordan, 19 March 2011.

Urban and Architectural Restoration: Italian Techniques, Materials and Services, organized by Greater Amman Municipality, Al Hussein Cultural Center, Amman, Jordan, 7/10/2009

Regional Workshop on **Economic-Environmental Evaluations of Urban Communities**, organized by Swiss Agency for Development and Cooperation (SDC), Aqaba Marine Park, Aqaba, Jordan, 11/2/2007 – 13/2/2007

Workshop on **Constructing Stones in Jordan**, organized by the Engineering Association/ The civil section committee and the Jordan Marble company (Alzamar), Al-Rasheed Hall, Engineering Ecosys, Sustainable Business Associates (SBA) and the Aqaba Special economic Zone Authority (Aseza) Association Complex, 9/8/2006, Amman, Jordan

Statistical Analysis with SPSS, Faculty Development Center, Al-albait University, 20 training hours, 2/5/2006 - 4/6/2006

E-Learning, Faculty Development Center, Al-albait University, 20 training hours, 12/12/2005 -21/1/2006

Faculty Member Development, Faculty Development Center, Al-albait University, 15 training hours, 2/10/2005 - 5/10/2005

TRAINING

Ethics & Integrity, UNOPS, 10/8/2018

Vocational Safety in the Work Place, organized by **A/E Business Council**, 7-8/12/2016

I know Gender: An Introduction to Gender Equality for UN Staff, UNOPS, 04/11/2016

Information Security Awareness, UNOPS, 29/10/2016

Project Management Induction, UNOPS, 28/10/2016

Prevention of Harassment, Sexual Harassment and Abuse of Authority, UNOPS, 28/10/2016

Basic Security in the Field, UNOPS, 21/6/2016

Information Security Awareness Foundation, UNOPS, 29/10/2016

King Abdullah II Excellence Award, organized by **King Abdullah II Center of Excellence, Millennium Hotel**, 23-24/9/2014.

Energy Efficiency Innovation Accelerator Workshop, organized by **USAID**, 3-6/2/2014

Building a Smart Program for Saving Water & Energy Through Design and Construction, organized by USAID and Jordan Green Building Council, 28/10/2013

The Practical Use of FIDIC Conditions of Contract, organized by FIDIC, JEA & A/E Business Council, 17-18/3/2013

LEED 201 Core Concepts and Strategies, organized by Jordan Green Building Association, Royal Scientific Society, Amman, Jordan, 3/5/2012.

LEED 101: Green Buildings Basics & LEED, organized by Jordan Green Building Association, Sheraton Hotel, Amman, Jordan, 6/3/2012.

Introduction to BIM, organized by JEA & Building Smart, Amman, Jordan, 18/1/2012.

Project Management Bootcamp, Organized by USAID and A/E Business Council, Sheraton Hotel, Amman, Jordan, 23-24 February 2011.

Swimming Pool Technique – Design, Selection & Applications, organized by Aqua Tech & JEA, 5/9/2007.

Environment-Economic Evaluations of Urban Communities, organized by Sba, Aqaba Special Economic Zone & Ecosys, Aqaba, 11-13/2/2007.

Webpage Design, organized by Al-Albayt University, 12 hours, 2-30/5/2006.

Virtual Reality in Education, organized by Al-Albayt University, 12 hours, 2-30/5/2006.

Statistical Analysis with SPSS, organized by Al-Albayt University, 20 hours, 2-30/5/2006.

Electronic Learning via Internet, organized by Al-Albayt University, 20 hours, 12/12/2005-15/3/2006.

Building Capacity of Faculty Members, organized by Al-Albayt University, 13 hours, 2-3/10/2006.

CONTESTS

National Competition for Designing Affordable Housing in Jordan, UNHABIT and Housing and Urban, Development, Feb 2015 –May 2015

PUBLISHED ARTICLES

Zagha, Lama and Momani, Khaled. The Impact of High Rise Mixed Used Developments on The Urban Setting: The case of Amman, Jordan. 9-11 June 2008, The Fourth Architectural Conference: High Rise Buildings, Jordan Engineers Association.

Zagha, Lama and Momani, Khaled. *Do Current Planning Regulations Achieve Good Quality Neighborhoods? The case of Amman, Jordan*. 20-23 May 2007, Housing 3 Symposium: Neighborhoods are more than houses, Arriyadth Development Authority (Refereed).

Zagha, Lama. *The Existing Land Use in Jordan*. 22 July 2006, Aqarcum Newspaper, issue 4, p.18.

Momani, Khaled and **Zagha, Lama**. *Neighborhood Configuration and Density in Amman, Jordan*. 25-28 March 2007, Neighborhoods are more than houses, Arriyadth Development Authority (accepted abstract).

RESEARCH INTERESTS

Housing provision for limited income people
The sustainable city: City master planning and design
Educational buildings (Schools and University campus)
Quality of life in housing neighborhoods
Socio-economic assessment
Geographic Information Systems regarding Zoning and Building designs
Land use
Building Regulations
Urban morphology

HONORS

Dean's list at Arizona State University 1992, 1993, 1994.
Phi-Kappa Phi - The honor society of Arizona State University.
Tau Sigma Delta –The Honor Society in Architecture at Arizona State University.

AWARDS

Recipient of Arab Student Aid International Scholarship, 1999, 2002
Recipient of Regents Scholarship at Arizona State University, 1993
Obtained Faculty Book Award for Master of Building Design. May 1994.

SOFTWARE

- AutoCAD, ArcView, SPSS, Microsoft Word, Excel, PowerPoint, Outlook, Internet, Photoshop,

REFERENCES

BisherJardaneh, email: bisher_Jardaneh@aj-group.com, cellular: 962795520869
Gerry Cullen, email: gerry.cullen@rpsgroup.com, cullengerry@gmail.com, cellular: 35387955182
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