

## Curriculum Vita (CV)

### Personal Data

**Name:** Ahmed S. Muhaisen

**Date of Birth:** 19.03.1975

**Place of Birth:** Gaza- Palestine

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### Education

- **1992-1997: BSc** in Architectural Engineering from the Islamic University of Gaza (IUG), with **Very Good**.
- **2000-2001: MSc** in Renewable Energy and Architecture from the University of Nottingham (UK), with **Distinction**.
- **2001-2005: PhD** in Climate Responsive Design and Building Technology from the University of Nottingham (UK).

### Work Experience

#### **Academic Experience**

- **1997-2000:** Teaching assistant at the Architectural Department in the Islamic University of Gaza (IUG).
- **2005 – 2011:** Assistant Professor in Architecture, at IUG.
- **2011 – 2016:** Associate Professor in Architecture, at IUG.
- **2016- Present:** Professor in Architecture, at IUG.

#### **Administrative and Professional Experience**

- **1997-2000:** Part-time designer in Namatt Engineering office in Gaza.
- **2006- 2007:** Vice head of the Architecture Department in IUG.
- **2007-2008:** Director of Centre for Architectural Heritage in IUG.
- **2009- 2010:** Director of Engineering Studies and Consultancy Centre in IUG.
- **2010- 2011:** Director of Centre for Architectural Heritage (IWAN) in IUG.
- **2011-2012:** External Consultant for the International Labour Organization (ILO) in the field of green construction.
- **2011- 2013:** Head of the Architecture Department in IUG.

### Current Position

- **2005- Present:** Lecturer (Professor) at the Architectural Department in the Islamic University of Gaza.
- **2013- Present:** Assistant to vice president for external relations.

### International Projects

- **2010- 2012:** Director of the project entitled "Preserving Tell Umm Amer Archaeological Site in Gaza" funded by the French Consulate. The participating institutions include: Islamic University of Gaza, UNESCO, the French Biblical School in Jerusalem and the Ministry of Antiquities in Gaza.

- **2011-2012:** Director of the project entitled "Towards Sustainable Construction and Green Jobs in the Gaza Strip" funded by the International Labour Organization (ILO).
- **2012:** Director of the project entitled "Urban Minorities in Europe and the Arabic Countries" funded by the German Academic Exchange Services (DAAD). The participating institutions include: Islamic University of Gaza, Bauhaus University (Germany), Alexandria University (Egypt), and the Jordanian University (Jordan).
- **2012- Present:** Director of the project entitled "Photogrammetry and Archaeology: memorize heritage to better manage it" funded by the French Al-Maqdisi Programme. The participating institutions include: Islamic University of Gaza and Strasbourg University in France.
- **2013- Present:** Director of the project entitled "Promotion of Energy- Efficient Buildings Towards Developing Sustainable Built Environment in the Gaza Strip- Palestine" funded by Austrian Partnership Programme in Higher Education and Research for Development – APPEAR. The participating institutions include: Islamic University of Gaza and Vienna University of Technology in Austria.
- **2014 – Present:** Director of IUG team in TEMPUS project entitled "HE Tuning Initiative for North Africa and Middle East". The project aims to implement tools developed under the European Union's Bologna process in Southern Neighbouring Area universities by building a framework of comparable, compatible and transparent programmes of studies.
- **2014 -2015:** A team member of the project entitled "Developing the civic engagement in IUG" funded by Silatak organization and Innovations in Civic Participation, ICP.

### **Training Courses**

I carried out the following Training Courses:

- **2012:** Three training courses on Green Construction with a total number of 80 hours, targeted the architects and engineers working in the local and international organizations involved in the sector of building design and construction including: UNERWA, UNDP, Gaza Municipality, Housing Ministry..etc.
- **2013:** Training course on Energy Efficient Building Design with a total number of 9 hours, targeted the architects and engineers working in the engineering office at the Islamic University of Gaza.

### **Experience in Civic Engagement Activities**

- **2007-2008:** Directing the project of preserving the historical houses in the old city of Gaza. The project based on the community participation and engagement in the various activities.
- **2010-2011:** Directing the project of the historical houses restoration in the old city of Gaza. Various groups of the civic society participated in the project, including NGOs, families and workers with the aim of improving the quality of living in such type of houses.

- **2012-2013:** Carrying out many training courses in the field of energy preservation, targeting various groups of the civic society with the aim of improve their capacity in terms of reducing energy consumption of energy and creating more sustainable environment.
- **2007-20013:** Participating in organizing many awareness activities including conferences, workshops, seminars aiming at increasing the civic society awareness and participation in the preservation of the architectural heritage in Gaza.
- **2005-Present:** Carrying out and supervising many researches aiming at solving part of the prevailing problems in the Gaza strip, related to issues such as energy, sustainability and deterioration of architectural heritage.
- **2014 – Present:** Participating in the higher committee of self-evaluation of the Islamic University of Gaza. I direct specifically the subcommittee responsible for evaluating the students services, human resources and quality and institutional development.
- **2015** Participating in the higher committee responsible for developing the strategic plan of IUG with relation to external relations and resources development.

### **Academic Activities**

- **2006:** Member of the reviewing committee of the "2<sup>nd</sup> International Engineering Conference on Construction and Development" organized by the engineering faculty in IUG.
- **2008:** Chairman of the organizing committee of the "1<sup>st</sup> international conference on Architectural Heritage: The Reality and Challenges for Preservation" organized by the engineering faculty in IUG.
- **2008:** Head of editorial board of the "Architectural Heritage Magazine" produced by Centre for Architectural Heritage in IUG.
- **2010:** Member of the scientific committee of the "2<sup>nd</sup> International Conference on Architectural Conservation" organized by the engineering faculty in IUG.
- **2010:** Vice Head of the editorial board of "Al-Omran Magazine" produced by the Architecture Department in IUG.
- **2011:** Chairman of the organizing committee of "the 3<sup>rd</sup> international conference on the Architectural Heritage" organized by centre for architectural heritage at IUG.
- **2012:** Chairman of the scientific committee of the study day entitled "Preserving the historical Old Towns" organized by Centre for Architecture Heritage in IUG.
- **2012:** Participation in the workshop entitled "Urban Minorities" organized by Bauhaus University in Germany.
- **2012:** Charmin of the committee responsible for developing the curricula of the Bachelor's Degree in architecture in IUG.
- **2012:** Participation in the training course on "Photogrammetry Techniques" organized by Strasbourg University in France.
- **2012:** Member of the organizing committee of the The 4<sup>th</sup> International Engineering Conference "Towards the Engineering of the twenty First Century", organized by the engineering faculty in IUG.
- **2013:** Member of the organizing committee of the Palestinian Heritage Week entitled "Our Palestinian Villages: Architecture and Civilization" organized by Center for Architectural Heritage
- **2011-2013:** Head of the editorial board of "Al-Omran Magazine" produced by Architecture Department in IUG.
- **2013:** Member of the committee responsible for developing the curricula of the Master Program in architecture in IUG.

- **2013-2015:** Member of the external Relations committee of the engineering faculty in IUG.
- Chairman of the external relation committee of the architecture department in IUG.
- **2013:** Chairman of a scientific session in the 3rd international conference on Islamic Arts and Architecture "Mosques Architecture" organized by Islamic University Network in cooperation with IUG.
- **2014:** Member of the committee responsible for developing the code of using PV systems in buildings organized by the ministry of Local Governance in Gaza.
- **2014-2015:** Chairman of the consultant committee for IT department in IUG.
- **2014-** Present: A member of the editorial and reviewing board of Athens Journal of Architecture, produced by Athens Institute for Education and research, Greece.
- **2016:** Chairman of the organizing committee of "the 6<sup>th</sup> International Engineering Conference on: "Energy Efficiency of Buildings" organized by the Engineering Faculty at IUG.

### **Fields of Interest**

- Energy Efficient Building Design
- Thermal Performance of Buildings
- Courtyard Building Design
- Climatic and Environmental Design
- Traditional Building Design
- Architectural Heritage Conservation

### **Languages**

- **Arabic:** Native Language
- **English:** Very Good

### **Publications**

#### **- Books**

Ahmed Salma Muhaisen. Solar Performance of Courtyard Buildings. Publisher: VDM Verlag. ISBN 13: 9783639270150 ISBN 10: 3639270150. (2010)

- A. S. Muhaisen, J. Ahlbäck. Towards Sustainable Construction and Green Jobs in the Gaza Strip. International Labor Organization. ISBN 978-92-2-126303-6 (print), ISBN978-92-2-126304-3 (web pdf) [http://www.ilo.org/wcmsp5/groups/public/---ed\\_emp/---emp\\_ent/documents/publication/wcms\\_184265.pdf](http://www.ilo.org/wcmsp5/groups/public/---ed_emp/---emp_ent/documents/publication/wcms_184265.pdf)

#### **- Refereed Journal Publications**

1- A. S. Muhaisen, M. B. Gadi. Mathematical model for calculating the shaded and sunlit areas in a circular courtyard geometry. Building and Environment. 40/12 (2005) pp. 1619-1625

2- A. S. Muhaisen, M. B. Gadi. Effect of courtyard building proportions on solar heat gain and energy requirement in temperate climate of Rome. Building and Environment. 41/3 (2006) pp. 245-253

3- A. S. Muhaisen, M. B. Gadi. Shading performance of polygonal courtyard forms. Building and Environment. 41/ 8 (2006) pp. 1050-1059

- 4- A. S. Muhaisen. Shading simulation of the courtyard form in different climatic regions. Building and Environment. Building and Environment. 41/ 12 (2006) pp. 1731-1741
- 5- A. S. Muhaisen. Study the experience of building with mud in Gaza Strip. Omron and Urban techniques Journal, Mesilla University, Algeria.
- 6- A. S. Muhaisen. Shading potential of semi-spherical dome with special reference to Gaza Strip.Journal of King Saud University. Architecture & Planning. Vol.23. No.1, pp (31-40) , 2011.
- 7- A. S. Muhaisen. The reality of historical residential buildings in Gaza city and the ways to preserve them.The Islamic University Journal (Series of Natural Studies and Engineering)Vol.17, No.1, pp 109-132 , 2009, ISSN 1726-6807
- 8- A. S. Muhaisen, H. M. Abed. Investigation of the thermal performance of urban configurations in the Mediterranean climate of the Gaza Strip. Lonaard Magazine. publication of Lonaard Group in London. Issue 11, Volume 2, pp 51-65, September 2012, ISSN: 2045 – 8150.
- 9- A. S. Muhaisen, H. M. Abed. Investigation of the thermal performance of building form in the Mediterranean Climate of the Gaza Strip.The Islamic University Journal of Natural and EngineeringStudies). Vol.21, No.1, pp 101-122 2013, ISSN 1726-6807
- 10- A. S. Muhaisen, H. M. Abed. Effect of urban geometry and spacing on the thermal performance in the Mediterranean climate of the Gaza Strip. Journal of King Saud University. Architecture & Planning. Vol.26. No.(1), pp (1-14) , Jan. 2014.
- 11- A. S. Muhaisen, H. R. Daboor. Studying the impact of window shading devices on heating and Cooling Energy Demand of the Gaza Strip Buildings.Lonaard Magazine. publication of Lonaard Group in London. Issue 12, Volume 2, pp 12-24, November 2012, ISSN: 2045 – 8150.
- 12- A. S. Muhaisen, H. R. Daboor. Studying the impact of orientation, size, and glass material of windows on heating and cooling energy demand of buildings in the Gaza Strip.Journal of King Saud University. Architecture & Planning. Vol.27 No.(1), pp (1-15) , Jan. 2015.
- 13- A. S. Muhaisen. The Reality of historical mosques in Gaza City and the problems of Preservation. The Islamic University Journal of Natural and Engineering Studies).. Vol.23, No.1, pp (a1-a19) 2015, ISSN 1726-6807
14. A. S. Muhaisen, H. M. Abed. Effect of building proportions on the thermal performance in the Mediterranean climate of the Gaza Strip. Journal of Engineering Research and Technology, Volume 2, Issue 2, June 2015
15. A. S. Muhaisen. Development of the House Architectural Design in the Gaza Strip. Athens Journal of Architecture. Vol. 2, No. 2, pp(131-150), April 2016
16. A. S. Muhaisen, N. Abu Mustafa. The Effect Of Aspect Ratio On The Thermal Performance Of Buildings In The Mediterranean Climate Of The Gaza Strip. Emirates Journal for Engineering Research, 20 (2), 33-41 (2015)
17. A. S. Muhaisen, N. Abu Mustafa. Effect of Galleries on the Thermal Performance of Buildings in the Gaza Strip. Journal of Engineering Research and Technology, Volume 2, Issue 3, September 2015

### **- Refereed Conference Publications**

- 1- A. S. Muhaisen, M. Gadi. A new computer model for solar radiation calculation in courtyard buildings with different forms. Proceedings on CD ROM. The 3rd International Conference on Sustainable Energy Technologies (SET3). The University of Nottingham. 28-30 June 2004
- 2- A. S. Muhaisen. The Energy problem in Gaza-strip and its potential solution. Conference Proceedings. International Conference in Energy and Environmental Protection in Sustainable Development (ICEEP).Palestine Polytechnic University (PPU).8 - 10 May 2007
- 3- A. S. Muhaisen, N. Al ramlawy, W. Al ashqar. A study of the centre for architectural heritage experience in archiving the historical buildings in Gaza using GIS. Proceedings on CD ROM. International conference of Architectural Heritage: The reality and challenges for preservation. The Islamic University of Gaza (IUG). 22-23 April 2008.
- 4- A. S. Muhaisen, N. Al ramlawy. Analytical study of the ornaments in historical houses and sites in Gaza city. Proceedings on CD ROM. International conference of Architectural Heritage: The reality and challenges for preservation. The Islamic University of Gaza (IUG). 22-23 April 2008.
- 5- A. S. Muhaisen, D. Hitta. Analytical study of the technical qualifying potential for workers in the field of architectural preservation in Gaza strip. Proceedings on CD ROM. International conference of Architectural Heritage: The reality and challenges for preservation. The Islamic University of Gaza (IUG). 22-23 April 2008.
- 6-A. Arabou, A. S. Muhaisen. The protected area of Gaza valley, and its significance for the natural and cultural heritage And eco-tourism. Proceedings on CD ROM. International conference of Architectural Heritage: The reality and challenges for preservation. The Islamic University of Gaza (IUG). 22-23 April 2008.
- 7- A. S. Muhaisen. The effect of construction materials on the evolution of the dwelling architectural design in Gaza Strip. Conference Proceedings. 3<sup>rd</sup> international conference on city management. Mesilla University, Algeria. 8-9 December 2010
- 8- A. S. Muhaisen, H. Abed.The impact of climatic treatments on the thermal comfort in the historical buildings in Gaza City "a comparative study between historical building and modern building". Proceedings on CD ROM. 3<sup>rd</sup>International conference of Architectural Heritage: Experiences and Solutions for Conservation and Rehabilitation. The Islamic University of Gaza (IUG). 26-27 April 2011.
- 9- A. N. Skake, M. A. Balawi, A. S. Muhaisen. The effect of changing the area and direction of windows overlooking the courtyard on the thermal comfort of the architectural spaces in the Gaza Strip using ECOTECH program.Proceedings on CD ROM. 3<sup>rd</sup>International conference of Architectural Heritage: Experiences and Solutions for Conservation and Rehabilitation. The Islamic University of Gaza (IUG). 26-27 April 2011.
- 10-I. J. El Tawil, A. S. Muhaisen. Sustainability Impact Assessment of University Master Plans- With Reference to Palestinian Universities in Gaza. Proceedings on CD ROM. The 4rd International Engineering Conference "Towards the Engineering of the twenty First Century". The Islamic University of Gaza (IUG).15-16 October 2012
- 11- A. S. Muhaisen, S. Y. Esmael. The extent to which the elements of sustainability are achieved in urban design of UNRWA schools in the Gaza Strip. Proceedings on CD ROM. The

4<sup>th</sup> International Engineering Conference "Towards the Engineering of the twenty First Century".  
The Islamic University of Gaza (IUG).15-16 October 2012

12- A. S. Muhaisen, Restoration works to preserve the historic houses in the old city of Gaza. The 1st Conference on the Palestinian Heritage. Ecole normale supérieure (France). 15-16 March 2012, Paper published in the conference preceding (Patrimoine en Palestine), Riveneuve editions, ISBN: 978-2-36013-177-8 (2014).

13- A. S. Muhaisen, The experience of preserving the architectural heritage in Gaza. The second international conference on old cities. Titwan, Morocco. 14-16 March 2013

#### **- Non Refereed Articles**

1- A. S. Muhaisen. Using Photovoltaic Panels in Buildings. Al-Omran magazine, Published by the Architecture Department at the Islamic University, Issue(5) 2006 (in Arabic).

2- A. S. Muhaisen. Energy Crisis in Gaza strip and its potential solution. Al-Omran magazine, Published by the Architecture Department at the Islamic University, Issue(6) 2006 (in Arabic).

3- A. S. Muhaisen. The International Energy Crisis. Al-Omran magazine, Published by the Architecture Department at the Islamic University, Issue(7) 2007 (in Arabic).

4- A. S. Muhaisen. Energy and Architectural Heritage. Al-Omran magazine, Published by the Architecture Department at the Islamic University, Issue(9) 2008 (in Arabic).

5- A. S. Muhaisen. The National Palestinian Museum. Al-Omran magazine, Published by the Architecture Department at the Islamic University, Issue(11) 2011 (in Arabic).

6- A. S. Muhaisen. Twenty Years on the Architecture Department. Al-Omran magazine, Published by the Architecture Department at the Islamic University, Issue(12) 2013 (in Arabic).

7- A. S. Muhaisen. Design of Hospitals, My Experience in Teaching. Al-Omran magazine, Published by the Architecture Department at the Islamic University, Issue(13) 2015 (in Arabic).

#### **Presentations and Talks**

1. A. Muhaisen. Architectural heritage in Gaza and the role of center for architectural heritage to preserve. Presentation on a Video conference meeting with Bauhaus university in Germany. On 27 May 2011

2. A. Muhaisen. Architectural Heritage in Gaza. Presentation in the first architectural week, organized by the engineering association in Gaza. On 23 June 2011

3. A. Muhaisen. Using PV panels in buildings. Presentation in the study day of "The Italian experience in the design of energy efficient buildings", organized by architecture department in IUG. On 21 Sep. 2011

4. A. Muhaisen. The role of awareness in the preservation of architectural heritage in Gaza. Presentation in the study day of "Applications of electronic teaching methods in engineering and education fields", organized by engineering and education faculties in IUG. On 20 Feb. 2012

5. A. Muhaisen. The experience of preserving Tell Umm Amer archaeological site. Presentation in the study day of "Preservation of old city centers", organized by center for architectural heritage in IUG. On 17 April 2012
6. A. Muhaisen. The experience of IUG in preserving Christian heritage in Gaza. Presentation in the workshop of "Urban Minorities in Europe and Arabic countries", organized by Bauhaus university in Germany. On 1<sup>st</sup> July 2012
7. A. Muhaisen. Study the experience of preserving the architectural heritage in Gaza. Presentation in "2<sup>nd</sup> international conference about the old city centers", organized by Mediterranean old cities network in Tatwan, Morocco. On 14 march 2013
8. A. Muhaisen. Relations with local organizations. Presentation in the workshop of "Civic engagement", organized by quality and development department in IUG. On 16 Sep. 2014
9. A. Muhaisen. Effect of Israeli last war (2014) on historical mosques in Gaza. Presentation in the study day of "Effect of the Israeli war on the cultural heritage of Gaza" organized by center for architectural heritage in IUG. On 29 Oct. 2014
10. A. Muhaisen. Using computer simulation tools in the environmental design of buildings. Presentation in the study day of "Computerized architectural design" organized by architecture department in Palestine university. On 20 April 2015