



## Curriculum Vitae

**Dr. Ahmed Abouaiana**

**Title: Lecturer**

**Department: Architectural Engineering**

**Email: [ahmed.abouaiana@su.edu.eg](mailto:ahmed.abouaiana@su.edu.eg)**

### **A) Academic Qualifications:**

- Bachelor of Architecture, Dept. Of Architecture, Faculty of Fine Arts, Alexandria University, Egypt 2003.
- Post-graduate Diploma in Urban Design and Community Development, Dept. of Architectural Engineering, Cairo University, Egypt (2009-2011).
- Master of Science in Architectural Engineering (Environmental Design and Planning) Cairo University, Egypt, 2016
- Ph.D. in Planning, Design, and Architecture Technology, Sapienza University of Rome, Italy, 2022

### **B) Academic promotions:**

- Lecturer Date: 01/10/2023

### **C) Scientific Merit (until November 2023):**

- Google Scholar: <https://scholar.google.com/citations?user=duEwsFOAAAAJ&hl=en>
- Scopus ID: [57222568085](#)
- Citations: 49                      h-index: 5                      i10-index: 1
- Web of Science ID: [HPF-0979-2023](#)

## **D) Scientific Activities**

### **D1: Membership of Professional Organizations and Scientific Societies**

- The Society of Egyptian Architects, ID. EGY 81.03.FA 20.2.185 20.2.1185 ASM
- Member of EGYPT ENGINEERS SYNDICATE. I.D:18/4705
- Italian Society of Architectural Technology (SITdA).

### **D2: Teaching Activities**

<b>Academic Year/s</b>	<b>Role</b>	<b>Affiliation</b>
22-23, Fall/Spring	Lecturer	Department of Architecture Faculty of Fine Arts, Helwan University, Egypt
2023, Spring	Lecturer	Department of Architectural Engineering, Cairo University, Egypt
2022, Fall	Lecturer	Department of Architectural Engineering, Cairo University, Egypt
2017-2018	Assistant Lecturer	Architecture Dept., Faculty of Engineering, Ain Shams University, Egypt
2016-2018	Assistant Lecturer	Modern Academy for Engineering and Technology, Egypt
2015-2018	Assistant Lecturer	15th May Higher Institute of Engineering, Egypt
2013-2014	Assistant Lecturer	6th of October University, Egypt

### **D3: Organizing workshops:**

- [Developing a transdisciplinary participatory workshop to improve the energy efficiency of the built environment in the Lazio region, towards an energy community in Pontinia.](#) 18 Jan 2022, Municipality of Pontinia, Latina, Italy.
- [Develop a Participatory Framework to Improve Energy Efficiency for The Built Environment in Delta Region.](#) By [Ahmed Abouaiana](#), PDTA, Sapienza University of Rome, 29Dec. 2021, Lasafar Albalad Village, Kafr el-Shiekh, Egypt.
- [Circular Construction Micro-scale Initiative.](#) By Ahmed Abouaiana, 14-22 August 2023, Cairo.
- Co-organizing “International Workshop on Earthquacjes and Natural Hazard Risk Management.” By the Italian Archeological Center-International Cultural Heritage Center, 20-21 March 2023, Cairo.

### **D4: Training Course/ Workshops:**

<b>Sn.</b>	<b>Description</b>	<b>Date</b>	<b>Location</b>
01	Wetland Park for Sustainability in Egypt. STDF   Science and Technology Development Fund.	6-7 Feb. 2021	Cairo, Egypt
02	HOTMAPS:The open source mapping & planning tool for heating & cooling. <a href="http://hotmaps-project.eu">hotmaps-project.eu</a> . By Eurac Research.	9-10 Dec. 2019	Bolzano, Italy
03	Old Medina of Fes City. By PDTA Department, Sapienza University of Rome	25-29 Nov 2019	Fes, Morocco
04	Water Sensitive Quseir, Integrated Urban Development by Brandenburgische Technische Universität & Cairo University	02-13 Sep. 2019	Cairo & Quseir Egypt
05	The Eco districts of Paris. By PDTA Department, Sapienza University of Rome	05-08 Apr. 2019	Paris, France
06	Statistical analysis skills workshop, Economic&Development Studies Center, Ain Shams University	20-21 Jul. 2019	Cairo, Egypt

07	EU Ecolabel and Environmental Management for Hotel,” Higher Institute for Environmental Protection and Research (ISPRA).	May 2013	Alexandria, Egypt
08	Sustainable Building – Lighting & Cooling workshop by Prof.Helmut Mueller	June 2012	AUC, Egypt

#### **D5: Conferences, Seminars and Symposiums**

01	Transdisciplinary Approach to Retrofit Rural Built Environments Novel Evidence from Egypt and Italy. The 10th International Conference on Planning, future studies, sustainable and integrated development in Architecture and Art. Luxor, Egypt, March 10, 2023.
02	Agile-Transdisciplinary Conceptual Framework for Retrofitting Mediterranean Built Environments. 6th Med Green Forum. Università degli Studi di Firenze July 2022.
03	Constructed Wetlands as Green Infrastructure to Improve Quality of Life. Presentation in the 6 <sup>th</sup> Architecture & Environment International Symposium, Rome,9/10 April 2021. <a href="https://doi.org/10.13140/RG.2.2.25794.50888">https://doi.org/10.13140/RG.2.2.25794.50888</a>
04	Emerging Technologies towards Energy- Efficient Built Environment Future in Egypt. Presentation in The First International Symposium for Postgraduate Students Abroad. <a href="https://doi.org/10.13140/RG.2.2.31560.34563">https://doi.org/10.13140/RG.2.2.31560.34563</a>

#### **D6: Contributions to Practitioners Congress:**

01	Delegate of the Society of Egyptian Architects. UIA World Congress of Architects. July 2023, Copenhagen, Denmark.
02	Delegate of the Egyptian Group “Italian Trade Agency – Egypt”. World Architectour Africa 2023. 5-6 July 2023, Padova, Italy.

#### **D7: Contributions to Educational Activities as Guest Lecturer:**

01	Urban Regeneration Practices in Developing Countries: A Case of Al-Quseir City, Egypt. Contribution to Rehabilitation and Urban Regeneration Studio, SAPIENZA UNIVERSITA’ DI ROMA, Prof.Chaiar Ravagnan. <a href="https://doi.org/10.13140/RG.2.2.10230.63047">https://doi.org/10.13140/RG.2.2.10230.63047</a>
02	“Ecodistricts” as Integrated Environmental Systems A Case of Clichy Batignolle, Paris. Contribution to Studies in Integrated Environmental Systems in Buildings and Urban Areas- Masters Program. Cairo University. Prof.Mohsen Aboulnaga
03	Sustainability Impact Assessment: Tools and Strategies. Contribution to Studies in Sustainability and Environmental Impact Assessment- Masters Program. Cairo University, Egypt. Prof.Mohsen Aboulnaga.
04	Circular Construction for Sustainable Built Environment. Sustainable Building Course, GUC, Sept. 25, 2023
05	Rural Energy Communities for Low Carbon Future [In Arabic]. Online. Ain Albeah NGO. <a href="https://www.youtube.com/watch?v=0Lm3Hf13zfU">https://www.youtube.com/watch?v=0Lm3Hf13zfU</a>

#### **D8: Teaching Scopes:**

- Environmental Control Systems / Sustainable Architecture / Building Technology / Architectural Design / Theory of Architecture / Project Management

#### **D9: Awards and Certificates of Appreciation:**

- Awarded the Facilities Management Firm of 2023. Within my collaboration as sustainability advisor with Edara Property Management Firm in Egypt, within the BIG Five Egypt Impact Awards. The intervention: Edara’s Experiment towards Sustainability: From a Green Transition to Creating Long-term Values.



**D10: Peer reviewing of scientific research:**

Role	Description
Board Member	<a href="#">Land (ISSN 2073-445X), MDPI;</a>
Peer Reviewer	MDPI: Sustainability, Energies, Buildings, Infrastructures, Solar , Urban Science, Designs Sustainable Mediterranean Construction- SMC (ISSN on-line: 2420-8213) TECHNE, Journal of Technology for Architecture and Environment (ISSN: 2239-0243) Journal of Sustainable Architecture and Civil Engineering (ISSN 2335-2000) Journal of Applied Engineering Science (EISSN: 1821-3197) Journal of Architectural Engineering (ISSN 1943-5568) <a href="#">American Journal of Construction and Building Materials</a> (ISSN: 2640-0057) “Results of SSPCR 2019” by Springer Graduated Peer Reviewer, WoS Academy, <a href="https://www.webofscience.com/wos/author/record/2062327">https://www.webofscience.com/wos/author/record/2062327</a>
Scientific Committee Member	( <a href="#">Conferences</a> and <a href="#">Publishing</a> ): International Association of Applied Science and Technology; The 7th Intl’ Conference on Building Materials ( <a href="#">7th ICBMM</a> ), Porto, Portugal, September 14-16, 2023; The 6th Intl’ Conference on Building Materials, Barcelona, Spain, September 15-17, 2022; International Conference on Green Building, Malmo, Sweden, May 19-21, 2023; The International Association of Electrical, Electronic, and Energy Engineering (IAEEEE); “ <a href="#">Advanced Studies in Efficient Environmental Design and City Planning</a> ” by SPRINGER & IEREK.
Moderator	The 3rd International Conference on “ <a href="#">Green Urbanism (GU)</a> ”, 11~13 Dec19, Roma, Italy

**D11: Consultancy Experience:**

(From 2008 until 2023) MAU Design (Architecture, Urban Design, and Interior Design) [www.mau-eg.com](http://www.mau-eg.com)

Profession: Founder, Architect

- Draw up the strategy, generate design concepts, and general supervision. Supervising team works

(08/2007-11/2008) ABDULRAHMAN ELNAIEM CONS. ENGR. – Egypt branch

Profession: Team leader and projects coordinator.

(04/2003-06/2007) ALMARSAM (Architects, Planners, Engineers), KSA

Profession: Architect

- Preparing construction drawings and site supervision (architectural finishing stage).

Architectural and sustainability consultancy services



(01/2022 until 06/2023) Edara Property Management (Subsidiary SODIC) [www.edaraproperty.net](http://www.edaraproperty.net)

Profession: Sustainability Advisor

- Providing the sustainability transition strategy and scientific analysis of the related market issues.
- Preparing the reporting of GRI, GHG Protocol, and Carbon Footprint.

### **D11.1 Architectural and sustainability consultancy services**

(06/2017- 09/2017) Misr El-Kheir Foundation (NGO) (Short Term Contract) [www.misrelkheir.org](http://www.misrelkheir.org)

Profession: Head of Technical Office

- Providing technical support to increase performance efficiency of work procedures in the engineering sector.

(From August 2016 to December 2016) (Short-Term Contract) Bridge Consultant

Profession: Projects' Technical Support.

- Upgrading the company's system, document producing techniques & Increasing team efficiency.

(08/2013- 03/2015) Azmeel Contracting Company – Egypt Branch

Profession: Technical Manager & Shop Drawings Department Founder.

- Founding workshop drawings department and general coordination with KSA Technical Offices

### **D12: Other Activities:**

#### **Promoting social initiatives - Social Responsibility**

---

01 **The correlation between built environment and climate change.**

A community initiative sponsored by the local administrative unit of the Rahmaniya- Kafr El-Sheikh Governorate. <https://www.facebook.com/Elrahmanya.official/videos/492342256153719/>

---

02 **Enhance linking professional practices with architectural education.**

Promoting initiative to. The initiative focused on the correlation between the architects in the operational and maintenance phase.

<https://www.facebook.com/SEA1917/posts/pfbid02qS4NDL22fWRv6omktTxTE4tgiLHu4hVSQGCeWHn9Hu8zw7JkTAKed23yX7TrpCnMI>

The collaborators are: Ahmed Abouaiana: Promoter / The Society of Egyptian Architects: Architectural Education / Edara property management: Professional Practices

---

## Social participation in the media (TV)- Social Responsibility

- 
- 01 **Interview on: The first service building fully powered by clean energy in the village of Kafr El-Sheikh** [In Arabic] (Channel one – National TV) <https://www.youtube.com/watch?v=CmfAKqkLVfE>
- 
- 02 **New ecological cities. Will traditional urbanization disappear to mitigate climate change?** [In Arabic]. (Good Morning Egypt Program, Channel One– National TV) <https://www.youtube.com/watch?v=jT0ztfwh75g>
- 
- 03 **Evaluation of national urban projects (New Delta Project).** [In Arabic] (Channel Six 6, Nationl TV) <https://www.youtube.com/watch?v=-23CZP-qT2Q>
- 
- 04 **Clean Energy and how to use it.** [In Arabic] (National TV). <https://www.youtube.com/watch?v=XMKplGIQm9U>
- 
- 05 **How do you make your home eco-friendly?** [In Arabic]. (Good Morning Egypt Program, Channel One– National TV) <https://www.youtube.com/watch?v=qpAPmVFs91A>
- 
- 06 **The importance of renewable energies in our life.** [In Arabic] <https://www.youtube.com/watch?v=6iciYahBSmg>
- 
- 07 **Development of the new delta and rural settlements in Egypt** [In Arabic]. <https://www.youtube.com/watch?v=nV8F826ariM>
- 
- 08 **Towards green architectural thinking.** [In Arabic] <https://www.youtube.com/watch?v=stW1Z0etim4>
- 

## **E) Scientific Publications:**

### **E1. Journal Articles (Ranked Journals)**

No.	Author/s	Title	Date	Journal/ Publisher	Impact Factor	DOI
01	<b>A. Abouaiana &amp; A. Battisti</b>	Insights and Evidence of Retrofitting Practices in Rural Areas: Systematic Literature Review(2023-2012)	2023	Buildings, MDPI	3.8	<a href="https://doi.org/10.3390/buildings13071586">https://doi.org/10.3390/buildings13071586</a>
02	<b>A. Abouaiana</b>	Rural Energy Communities as Pillar towards Low Carbon Future in Egypt: Beyond COP27	2022	Land, MDPI	3.905	<a href="https://doi.org/10.3390/land11122237">https://doi.org/10.3390/land11122237</a>
03	<b>A. Abouaiana &amp; A. Battisti</b>	Multifunction Land Use to Promote Energy Communities in Mediterranean Region: Cases of Egypt and Italy	2022	Land, MDPI	3.905	<a href="https://doi.org/10.3390/land11050673">https://doi.org/10.3390/land11050673</a>
04	<b>Ahmed Abouaiana &amp; P. Mendonça</b>	Retrofitting Dwellings in Traditional Coastal Settlements in Egypt and Portugal Using Nature-Based Solutions and Conventional Thermal Insulation Materials: Technical and Economic Assessment	2022	Journal of Arch. Engrs., ASCE	1.82	<a href="https://doi.org/10.1061/(ASCE)AE.1943-5568.0000537">https://doi.org/10.1061/(ASCE)AE.1943-5568.0000537</a>

05	<b>Ahmed Abouaiana</b>	Retrofitting Rural Dwellings in Delta Region to Enhance Climate Change Mitigation in Egypt	2021	Sciendo	1.77	<a href="https://doi.org/10.2478/rtuct-2021-0009">https://doi.org/10.2478/rtuct-2021-0009</a>
----	------------------------	--	------	---------	------	---

## E2. Book at Springer

No.	Author/s	Title	Date	ISBN	Publisher
06	M. Abounaga, A. Trombadore, M. Mostafa, <b>A. Abouaiana</b>	Livable Cities: Urban Heat Islands Mitigation for Climate Change Adaptation Through Urban Greening	2023	978-3-031-51219-3	Springer International Publishing

## E3. Book Chapters (in books with ISBN)

No.	Author/s	Title	Date	Book Name, ISBN	Publisher
07	<b>A. Abouaiana &amp; A. Battisti</b>	Agile-Transdisciplinary Conceptual Framework for Retrofitting Mediterranean-Built Environments <a href="https://doi.org/10.1007/978-3-031-33148-0_11">https://doi.org/10.1007/978-3-031-33148-0_11</a>	2023	Mediterranean Architecture & the Green-Digital Transition -Med Green Forum 2022. ISBN 978-3-031-33147-3	Springer Nature
08	M. Abounaga, A. Trombadore, M. Mostafa,	Urban Heat Islands Assessment and Urban Green Coverage in Megacities – Greater Cairo, Egypt and Rome, Italy	2023	Livable Cities: Urban Heat Islands Mitigation for Climate Change Adaptation Through Urban Greening ISBN:978-3-031-51219-3	Springer International Publishing
09	<b>A. Abouaiana</b>	Environmental Framework for Mitigating High Temperatures in Global Cities by Exploiting Urban Green Coverage – Two Case Studies: Cairo, Egypt and Rome, Italy			
10		Urban Green Coverage Post COVID-19 Regulations and Suggestions			
11	<b>A. Abouaiana</b>	Constructed Wetlands as Green Infrastructure to Improve Quality of Life	2024	Urban-Rural Dialogue in Green City Design Hensel, M., Battisti, A., and Hensel, D.S- <b>Forthcoming</b>	Springer Nature
12	<b>A. Abouaiana &amp; M. Mhamadin,</b>	The Role of Egyptian Residential Buildings Energy Code in Enhancing Sustainable Development in Egypt: Evaluation of Nine Years of Practice	2018	International Conference for Sustainable Design of the Built Environment (SDBE 2018). ISBN: 978-1-9997971-9-5	
13	M. Mohamadin, <b>A. Abouaiana &amp; Sakr Y.</b>	Integrating Energy Performance Assessment Tools in Architectural Design Studio Education			
14	Mohamadin, M, <b>A. Abouaiana., &amp; Wagih Y.</b>	Parametric Islamic Geometric Pattern for Efficient Daylight and Energy Performance-Façade retrofit of educational space in hot arid climate	2016	PARAMETRICISM VS. MATERIALISM Evolution of Digital Technologies for Development. ISBN 978-0-9955691-0-2	ASCAAD Conference Proceedings

#### E4. Articles in Scientific Journals with ISSN

- 15 **Abouaiana, A.** (2017). The Impact of Higher Education Projects on Reforming Urban Identity of The Urban Communities: Case Study of 6th October City In Greater Cairo. *The Academic Research Community Publication*, 1(1), 7. <https://doi.org/10.21625/archive.v1i1.127>

#### E5. Thesis

Author	Title	Date	Type	Publisher and DOI
16 <b>Ahmed Abouaiana</b>	Agile Methodology as a Transdisciplinary Retrofitting Approach for Built Environment in Traditional Settlements in Mediterranean Region	2022	Ph.D. Thesis	Sapienza University of Rome: Rome, Italy. <a href="https://doi.org/10.13140/RG.2.2.31786.49602">https://doi.org/10.13140/RG.2.2.31786.49602</a>
17 <b>Ahmed Abouaiana</b>	Principles for Existing Rural House Sustainability in Delta Region (With Special Reference to Energy Efficiency) [In Arabic]	2016	MSc. Thesis	Cairo University, Giza. <a href="https://doi.org/10.13140/RG.2.2.21412.71044">https://doi.org/10.13140/RG.2.2.21412.71044</a>

#### E6. Preprints

- 01 Built Environment and Electricity Consumption Correlation: Novel Bottom-Up Experiment in Rural Egypt. <https://doi.org/10.13140/RG.2.2.27053.05608>
- 02 Architecture and Sustainable Rural Development in Delta Region in Egypt: A Review. <https://doi.org/10.13140/RG.2.2.27053.05608>

#### F) Skills

- Language Skills: Arabic/ English / Italian
- Computer Skills:
  - MS Office, ISPSS, Reference Manager, Text Mining, Screening, and Systematic Literature Review Tools.
  - Architectural (design, drafting, visualization); Energy Plus; Envi-met; Climate Consultant; Rayman;
  - Founder of Design Builder Software (non-profit) educational [Facebook Group](#) since 2016.
- Presentation skills:
  - Analytical skills, good work organization skills, coordination and division of work among team members.
  - Working in different environments and managing many tasks and workgroups.
  - Ability to present the ideas work individually or in a team, besides building reliable communications.