

Mona Awad Abo El enien Elwazir

-Associate Professor , Architectural Engineering Department

-Executive Director of sustainable architecture program

Faculty of engineering Mansoura University

-Vice Dean of the High Nile Institute for Education and Student Affairs, Mansoura



Personal Information

Date of birth 9th November, 1974
Nationality Egyptian
Marital Status Married
Adress 9 Dr Hamed Nasr str. Camp Cizar ,
 Alexandria ,appartement 402
Permanent Position Associate Professor at Architectural
 Engineering Dept., Faculty of
 Engineering, Mansoura University,
 Egypt
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Academic Qualifications

- Ph.D., Alexandria University, Egypt, 2011

Department of Architecture, Faculty of Fine Arts.

Thesis Title: The role of facades To Realize thermal Heat comfort inside Office buildings in Egypt

- M.Sc., Mansoura University, Egypt, 2004

Architectural Engineering Department, Faculty of Engineering

Thesis Title: Effect Of Hi-Tech. Construction Of Curtain Wall On Energy Conservation On Building In Egypt

- B.Sc., Alexandria University, Egypt, 1997

Architecture Department, Faculty of Fine Arts.

Employment History

<u>Position</u>	<u>Starting Date</u>	<u>Ending Date</u>	<u>Employer</u>
Director of sustainable architecture program SAE credit hour program	August 2021	August 2024	<i>Faculty of engineering Mansoura university</i>
Vice Dean Education and Student Affairs,	Dec.2019	2021	<i>the Nile Higher Institute in Mansoura</i>
Associate Professor	Oct. 2017	Till now	<i>Architectural Engineering Department ,Faculty of engineering Mansoura University</i>
Assistant Professor	May. 2011	Oct. 2017	
Assistant Lecturer	Jan. 2007	Feb. 2011	
Assistant Researcher	Dec.1998	Feb.2004	

Supervision and Arbitration Master Thesis:

NO	Title	Remarks	
1	Towards sustainable development of coastal intermediate cities in Egypt case studies Damietta and Al Qusir	Supervision	Completed
2	The effect developing the elements of the landscape architecture in achieving sustainability and human comfort	Supervision	Completed
3	Sustainable building material technology as an approach to thermal comfort in low income housing in hot arid regions	Supervision	Completed
4	THE ROLE OF NANOTECHNOLOGY TO REALIZE HUMAN COMFORT IN INTERIOR Residential SPACES	Supervision	Completed
5	Towards sustainable environmental design methodology for administrative building spaces	Supervision	Completed
6	Strategy interfaces upgrading slums after the revolution of January 25 rice straw as a solution to the architectural facades of the Egyptian environment friendly	Supervision	Completed
7	Mutual effects between urban reality for public urban spaces and variable political conditions	Supervision	Completed
8	Towards a strategy to assess the sustainability of contemporary rural house in Egypt	Supervision Arbitration	Completed
9	Approaching urbanization and economic growth in local communities in Egypt	Supervision Arbitration	Completed
10	Towards sustainable urban design of campus in Egypt using simulation tools for optimizing thermal comfort	Supervision Arbitration	Completed
11	Barrier free design-human dimension between theory and practice in architecture for the physically disable in Egypt	Supervision Arbitration	Completed
12	The role of photovoltaics processors as an approach to sustainable urban design of residential neighborhoods	Supervision Arbitration	Completed
13	Simulation tools for daylight optimization in residential spaces	Supervision Arbitration	Completed
14	The problematic relationship between the modern architecture and the Islamic art , the contemporary view of the application of Islamic patterns in architecture	Supervision Arbitration	Completed
15	The management of solid waste as an approach to sustainable urban environment	Supervision	On-going
16	Nano technology role in achieving thermal comfort in curtain façades buildings in hot and dry climate areas	Supervision	On-going
17	Problematic of random commercial spaces street vendors between disability and urban development opportunity	Supervision	On-going
18	Adaptive technologies of Nano-Architecture for the next generation of sustainable building application	Supervision	On-going
19	Towards a Sustainable Methodology for Finishing Materials Use in Interior Spaces for Children's Hospitals	Arbitration	
20	Smart interfaces Techniques as an input to rationalize energy consumption case study administrative building	Arbitration	

21	Islamic Dwelling between Vernacular and Green Architecture”	Arbitration
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Supervision and Arbitration PhD Thesis:

NO	Title	Remarks	
1	The desert hinterland and its random surrounding a case study on sustainable urban development of Al Shahateen manor ar Mansoura	Supervision	Completed
2	Terms of educational environment as a tool to activate the concept of sustainable schools in Egypt	Supervision Arbitration	Completed
3	Study and development of sustainability criteria in contemporary Yemeni housing case study city of Sana	Supervision	On-going
4	The Role of the Nano Technology to realize Sustainability in Primary Schools Case Study : Templates of the Educational zones for the Primary stage in Damietta	Supervision	Completed

Publications

Peer-Reviewed Journal Papers (ISI Journals)

- 1- Rawan el abassy , Mona elwazir , Marwa Atef , ‘ **Green walls as an entry point to improve the building’s thermal efficiency into educational building case study Hayah Karima primery scholl in dry region Assuite “** , Mansoura engineering Journal (MEJ) , volume () ,issue() , JUNE 2024 .
- 2- Noha Roushdy, Mona elwazir , Esraa elazab ‘ **Green walls as a tool to achieve thermal comfort in university spaces simulation study using Design Builder program “** , Mansoura engineering Journal (MEJ) , volume 48,issue 3, JUNE 2023 .
- 3- Hiba Hilal , Mamdouh A.Mohamed , Mona Elwazir , ‘ **A proposed gamefication strategy for architectural design courses “** , international journal of scientific and engineering research , volume 14,issue 9, January 2023 .
- 4- Hany M. Hassana,b,e,* , C. Frischknehtc , Mona ElWazir &othrs , “ **Tsunami hazard and risk assessment for Alexandria (Egypt) based on the maximum credible earthquake”** , available at ScienceDirect Journal of African Earth Sciences www.elsevier.com/locate/jafrearsci , (2020).
- 5- L. S. Al-Jezawy , Mona.A. Elwazir , Waleed Hamam , “ **The Effect of developing the elements of landscape architecture in achieving sustainability and human comfort “** , International Journal of Scientific and Engineering Research (IJSER) Volume 9, Issue5, may 2018
- 6- L. S. Al-Jezawy , Mona.A. Elwazir , and R. A. MOHAMED , “ **The role of photovoltaic processors as an Approach to sustainable urban design of residential neighborhoods”** , International Journal of Scientific and Engineering Research (IJSER) Volume 9, Issue6, June 2018
- 7- Aliaa A. Yassin, Sherif A. Sheta, Mona A. ELWazir, “ **Parametric Study on Window-Wall Ratio (WWR) for Day lighting Optimization in Multi-Story Residential Buildings: Case Study of an Apartment Complex in Mansoura City, Egypt”** , IARJSET, INTERNATIONAL ADVANCED RESEARCH JOURNAL IN SCIENCE ENGINEERING AND TECHNOLOGY , Volume 4, Issue 3, March 2017.

Peer-Reviewed Journal Papers

- 8- Dr/Mona El Wazir, Marwa elbialy & others , " **The role of nanotechnology to realize human comfort Interior Spaces" future trends and needs of skyscrapers in the twenty-first century “**, Mansoura Engineering Journal MEJ, volume (37) , issue (3) September 2012.
- 9- Dr / Mona El Wazir, Wesam Rashed & others, "**Strategy interfaces upgrading slums after the revolution of January 25 rice straw as a solution to the architectural facades of the Egyptian environment friendly,**" Mansoura Engineering Journal MEJ, volume (38) , issue (2) 2013.
- 10- Dr/Mona El Wazir ,“**About a proposed methodology to reduce the vertical urbanization Egyptian cities after the revolution of January 25 , Case study "the phenomenon of building residential towers offense in Alexandria"**, JES journal of engineering science faculty of engineering-Assiut university , Volume (41) , Issue (6) , Nov 2013
- 11- 5- Dr/Mona El Wazir& - Dr/Anhar Sindi , “ **Architectural design proposal for women's sports clubs that fits the privacy of Muslim women An Empirical Study on the Kingdom of Saudi Arab “**, journal of Mansoura for engineering science , volume (38) Issue (3) Sept 2013
- 12- Mona ELWAZIR , Rasha Ashmawy & other,“**Evaluation of sustainable development policies for the Hinterlands villages in Upper Egypt”**, JES journal of engineering science faculty of engineering Assiut university , Volume 43 , Issue 3 , may 2015.
- 13- Dr /mona el wazir , Walaa abdrzik , Prof.Aahmed Rashed ,” **Towards a sustainable development of Damietta as a costal intermediate city in Egypt “**, JES journal of engineering science faculty of engineering-Assiut university , Volume 43 , Issue 6 , NOV. 2015.
- 14- Aya Elkamhawy, Mona Elwazir, Sherif A. Sheta,” **Sustainability of Contemporary Rural House in Egypt Case of Al-Basaysa village in Al-Sharkya governorate “**, Mansoura Engineering Journal MEJ, volume (40) , issue (4) DEC. 2015.
- 15- Aya Elkamhawy, Mona Elwazir, Sherif A. Sheta,” **Sustainability of Contemporary Rural House Between The Perceptual Experiences of Hassan Fathy and Ramses Wissa Wassef “**, Mansoura Engineering Journal MEJ, volume (40) , issue (4) DEC. 2015.
- 16- Prof. Dr. Ahmed Rashid, Dr. Mona wazir, Eng. Walaa Abd Al-Razik , “ **Towards A Sustainable Development of Al-Quseir: as a Coastal Intermediate City in Egypt “**,Mansoura engineering journal MEJ, Volume (40) , Issue (4) 2015.
- 17- Dr /mona el wazir, iman farouk, Prof.Alaa elashy,” **Random commercial spaces potentials and problems”**, Mansoura engineering journal MEJ, Volume (41) , Issue (4) December 2016

- 18- Mona Elwazir, Rania Salah, Sherif sheta , “ **Barrier free design-human dimension between theory and practice in architecture for the physically disable in Egypt** “ , Mansoura engineering journal MEJ, Volume (42) , Issue (2), June 2017.
- 19- Mona Elwazir , “ **The Phenomenon of Reusing Elements of the Italian Architecture Style in the 21 Th century Case Study: Residential Building Facades at Alexandria**”, JES journal of engineering science faculty of engineering-Assiut university , Volume 45, Issue 4 , July 2017
- 20- Monira Abdalah, Mona Elwazir&others ,” **Mutual effects between urban reality for public urban spaces and variable political conditions** ” , Mansoura Engineering Journal MEJ, volume (42) , issue (1),March 2017.
- 21- Heba Tharwat, Mona elwazir&others “ **applicable comparative study for sustainable urban development strategies**”, Mansoura Engineering Journal MEJ, volume (42) , issue (1),March 2017.

International Conference Papers

- 22- Dr/Mona El Wazir, “**Study the thermal behavior of the external walls in heritage sustainable buildings In Islamic Architecture, “Case study and comparison of the buildings in Arab Countries”** Poster in International Conference on Women in Science and Technology in the Arab Countries. Kuwait Institute for scientific researches KISR, Venue: Kuwait City, Kuwait, April, 2013
- 23- Dr Mona El Wazir,“ **E_LEARNING AS A TOOL OF SUSTAINABLE EDUCATION IN UNDERGRADUATE LEVEL , CASE STUDY : THE EXPERIENCE OF APPLYING THE FIRST ELECTTONIC COURSE IN ARCHITECTURE DEPARTEMENT ALL OVER EGYPTION UNIVERSITIES** “ , The 2nd Dubai International Conference in Higher Education , Michigan State University in Dubai , 2014.
- 24- Dr Mona El Wazir,“ **Environmental Design's role in achieving thermal comfort within residential buildings in Egyptian rural**”, International Conference on Environment and Renewable Energy ICERE , Paris , France , may 2014 , you can find my abstract is on the page 84. <http://energy.conference-site.com/>
- 25- Mona ELWAZIR , Rasha Ashmawy ,” **Sustainable Urban Development Strategy of Slums in Egypt after the revolution of January**“, 8th Engineering Conference Faculty of engineering ,Mansoura University , spatially issue DEC. 2015.
- 26- Mona ELWAZIR,“ **the Architecture department student s Visions and Directions for graduation project, the phenomena of cloning deconstruction projects 2010-2015**, 8th Engineering Conference Faculty of engineering ,Mansoura University , spatially issue DEC. 2015.

- 27- Dina Shokry , Lamis elgizawi Mona ELWAZIR,"**Natural lighting as an approach for environmental sustainability in the interior spaces** ",8th Engineering Conference Faculty of engineering ,Mansoura University , spatially issue DEC. 2015.
- 28- Marwa Atef, Mona Elwazir, Alaa Elashi ,," **Photovoltaic simulation for the vocabulary of the educational environment**",8th Engineering Conference Faculty of engineering ,Mansoura University , spatially issue DEC. 2015.
- 29- Mohamed S. El-Ashry, Mona A . El-Wazir, Lamis S. El-Gizawi,"**Using Simulation Tools to Enhancing The Impact of Thermal Comfort in Urban Design of Mansoura Campus** 8th Engineering Conference Faculty of engineering ,Mansoura University , spatially issue DEC. 2015.
- 30- MohamedS El-Ashry Mona A. El-Wazir Lamis S. El-Gizawi " **Enhancing Thermal Comfort in Urban Design of Mansoura Campus by Using Simulation Tools Case Study 'Faculty of Science Urban Design'** ", '1st International Conference on Towards a Better Quality of Life ,TU Berlin University 2017 <http://ssrn.com/abstract=3163441> Posted: 24 Apr 2018
- 31- Aliaa A. Mahmoud, Mona A. ElWazir," **VOCS EMISSIONS BEHAVIOR OF COMMON FLOORING MATERIALS USED IN THE EGYPTIAN MARKET , A Case Study on Educational Spaces in The Faculty of Engineering- Mansoura University**", The 8th international scientific conference of the Architecture Engineering department at the Faculty of Engineering Cairo University [ArchCAIRO8], April 2019.
- 32- Karim eldali , Mona A. ElWazir," **Improved Thermal Characteristics and Energy Efficiency in the High-Income residential spaces in Egypt**", The 8th international scientific conference of the Architecture Engineering department at the Faculty of Engineering Cairo University [ArchCAIRO8], April 2019.
- International Conference Attend only**
- 33- **Third Nanotechnology conferences** , research center for housing and construction , Cairo 2013 .
- 34- 1st International conference , " **University and Industry** ", - Hosted by Mansoura University, March 2015.

Professional Activities

- 1- **Study visit and teaching activities at the "Gheorghe Asachi" Technical university of Iasi, Romania**, Faculty of architecture "G. M. Cantacuzion" Within the framework of the ERASMUS+ Program (KA 107 action), May 2022
- 2- Winning the first place award in the "**Finding Suitable Housing Solutions competition**" on the sidelines of the Habitat Housing Forum organized by **Habitat for Humanity organization Egypt**, October 2022
- 3- **Design the Executive Regulations** of Sustainable Architecture Program , faculty of engineering with the Credit Hours System in 2020, which was approved by Ministerial Decision No. 3967 dated September 27, 2020
- 4- **The design of the memorial shield of the Faculty of Engineering**, Mansoura University, in celebration of the golden anniversary of the college in 2023

- 5- **Member of the Executive Committee of Dakahlia Governorate** for the National Council for Women for **the Arbitration of Smart Green Projects** in the second phase of the National Initiative for Green Projects, September 2023
- 6- Member of Egyptian Engineers Syndicate.
- 7- Arab Society for Materials Science , Alexandria.
- 8- Scientific Society of Nile Higher Institute of Engineering and Technology (Obelisk)
- 9- Membership of the Library Committee of the College of Engineering
- 10- Council Membership of the Department of Architectural Engineering

Teaching and Supervision Experience

I have taught a wide range of courses that mainly covers the topics of Architectural Design , solar Environmental Design, Interior Design, including fundamentals and applications. In addition to the classroom teaching and instruction and **I have supervised graduation projects** on public building as cultural Crafts centers, in Mansoura and other universities :-

- 1- Arbitration of student projects for the engineering drawing course at the Faculty of Engineering -**Mansoura National University**, January 18th 2023
- 2- **Jury member** for ARC014 Architectural Design studio 2 , Architectural design & digital architecture program - **Galala university**, June 16th 2022
- 3- Faculty of fine arts Alexandria University
- 4- Faculty of Engineering Arab Academy for Science, Technology and Maritime Transport
- 5- Faculty of Engineering Mansoura University
- 6- Mansoura High Institute of Engineering and Technology college
- 7- taught in undergraduate program faculty of Fine Arts Mansoura university 2016-2018 :-
- 8- taught in undergraduate program faculty of engineering , Delta university
- 9- **Delta Higher Institute for Engineering & Technology Mansoura**
- 10- **MISR Higher Institute for Engineering & Technology Mansoura**
- 11- **Nile Higher Institute for Engineering & Technology Mansoura**

Participation in Academic Accreditation

- Coordinator of Quality Assurance & Accreditation of Architectural Engineering Department, Faculty of Engineering, Mansoura University, April 2010 – April 2011.
- Member of the completion team for Course description And the annual report of the Department of Architecture

Training courses attended :-

At Mansoura University, Egypt

- 1- Time management and work stress
- 2- Teaching with technology
- 3- Effective presentation skills
- 4- Ethics of the profession

- 5- Organizing scientific conferences

At Alexandria University, Egypt

- 6- References management system
- 7- Method of scientific research
- 8- Research team management
- 9- International publishing of researches
- 10- E-Learning education

Parteception in symposium & exhebitions

- 1- **Participation in art exhibition** “Time.Place.Human.” Dedicated to the 80th anniversary of the establishment of diplomatic relations between Russia and Egypt, Russian house in Alexandria, April 2023
- 2- **Symposium of The social effects of urban expansion in the Arab city** , Arab Urban development institute , Kingdom of Saudi Arabia,8-10 April 2013.
- 3- **Symposium of Urban management in arid regions**, Arab Urban development institute, Morocco September 2014.

Parteception in workshops:-

- 1- **completing the NET ZERO buildings workshop** of the center of excellence for energy, May 13th 2024
- 2- Climate changes an introductory workshop, Alexandria research center for adaptation ARCA, FEB. 2012
- 3- Egyptian sustainable development Earth architecture workshop, Architecture department faculty of engineering, Mansoura University 2012.

Parteception in Training course:-

- 4- **Scientific thinking** and Argumentation skills for problem solving, **DAAD Cairo** academic exchange, Feb. 2013.
- 5- **Applications of using renewable energy** in urban development, Urban Studies Training Institute, **The National Center for Housing and Building Research**, Cairo 2013.

Experience in University Service and Environmental Affairs

I carried out numbers of workshops aim to support cooperation between university and society in the frame of children training on architecture education :-

- **Work shop of 3D models for public projects** , preparatory students , Franciscan sister school at Alexandria on doing architectural models for national projects in Egypt.
- **Work shop of 3D models for cube gamming** , primary students , Franciscan sister school at Alexandria on doing educational examples .



- **Work shop of building and surrounding environment ,** Nile Club for faculty members at Mansoura University, summer holiday 2017
<http://env.mans.edu.eg/sector-news/current-news/799-active-2>



Experience in field of Architectural design and engineering consultancy

- 1- Preparing Architectural designs and tender documents for **residential students buildings** Damietta University
- 2- Preparing Architectural designs and tender documents for **the guesthouse building of Damietta University**
- 3- Preparing Architectural designs and tender documents for **Teaching staff administrative building of Damietta University**
- 4- Preparing Architectural designs and tender documents for **Faculty of Pharmacy building C**
- 5- Engineering supervision for building construction **Printing and Publishing House Mansoura University**
- 6- Preparing technical report and Bill of quantities for **number of schools revamping project Damietta governorate**

Experience in online E- learning

- 1- good communication skills gained through my experience when recording my 8 academic lectures in Mansoura tube , youtube the link is :

<https://www.youtube.com/watch?v=3UZ9hoExHII>



- 2- Good communication skills gained through my experience when Making the **first electronic course in architecture design 1 for first year student, in architecture department** , the electronic course have been produced in **SUPREME COUNCIL OF UNIVERSITIES in Egypt** . the first and course in architecture Design in Egypt
- 3- Activating an e-course for others entitled **Color Theory** Production of the Faculty of Art Education, Damietta University
- 4- Create a personal page and upload the courses that I teach on the **Moodle System**
- 5- recording 7 lectures in Nile Higher institute YouTube link is :
https://www.youtube.com/watch?v=O0qPQAzGPU0&list=PL_ZO4VhYe_LsTEM05vk0LszitVjhBYFP&index=41
- 6- Participation in preparing and opening lecture for the scientific conference On Line 2020 of the Architecture Department at the High Institute of Engineering
<https://www.facebook.com/OBELISK.2017/videos/760622741196103/?sfnsn=scwspmo&extid=SGpUWCqBNqwndOMH&d=n&vh=e>