



KAREEM M. ALDALI

Program Coordinator, Sustainable Architecture Engineering,
Assistant Professor of Architecture, PH.D.,
LEED G.A., AI-Researcher, Senior Architect.

I am an Assistant Professor of Architecture and Program Coordinator of the Sustainable Architecture Engineering Program with over 12 years of academic and research experience. At Horus University, I coordinate curriculum development, accreditation processes, and faculty engagement to ensure outcome-based and student-focused learning in a multicultural environment. My teaching incorporates innovative methods, including e-learning platforms, BIM, and environmental simulation, to enhance student engagement and learning outcomes. Alongside teaching and administration, I contribute actively to international research and conferences on sustainable architecture, energy efficiency, and AI-driven design, preparing future architects to meet global sustainability challenges.

PERSONAL DATA

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2, Italian district, Badr city, New Cairo, Egypt.

GENDER Male

DATE OF BIRTH 25 Sep 1990

PLACE OF BIRTH Gharbia, Egypt.

NATIONALITY Egyptian

MOTHER TONGUE: Arabic

SPOKEN LANGUAGES: English (Fluent),
Deutsch (Basic Conversations).

WORK EXPERIENCE

Program coordinator, Sustainable Architecture Engineering Program, faculty of Engineering, Horus University (HUE), Dumyat, Egypt. (Full-time)

Sep. 2025 – now

- Appointed as Program Coordinator to oversee academic administration and support program development.
- Responsible for coordinating curriculum delivery, accreditation preparation, and faculty engagement.
- Supporting integration of innovative teaching methods and digital learning strategies to align with student-focused and outcome-based education.

Assistant Professor of Architecture, Horus University (HUE), Dumyat, Egypt. (Full-time)

Sep. 2023 – Aug. 2025

- Lead the Teaching process of many courses like Design Studio 1 (ARC162), Landscape and Urban Design (ARC261), Building Construction (ARC233), Graduation Project (ARC492), and Execution Documents (ARC472), Architectural & Urban Legislation (ARC371), Computer Applications in Architecture (ARC 255).
- Took part in the accreditation process of **National Programmatic Accreditation**.
- Participated in Exams & Results Control Unit.

Researcher Collaborator, Architecture Energy Efficiency Research. Imam Muhamed bin Saud Islamic University (Aboard)

Jan. 2024 – now

- **Main PI: Dr. Mohamed Aloshan (Chairman, Architecture Department).**
- Participated in a funded research project titled "**Towards Net-Zero Carbon: Energy Efficiency in Buildings under Current and Future Climate Scenarios in Saudi Arabia**" under the 14th Research Cycle (Project No. 221414001).
- Publications and spoken conferences are stated below.

Assistant Professor of Architecture, New Mansoura International University, Egypt. (Part-time)

Sep. 2024 – now

- Lead the Teaching process of many courses like Illumination & Ventilation in buildings (Arc355), Visual Perception, Art and design (ARC111), Architecture design studio 3 (ARC223), Sustainable Urbanism (ARC476)

Assistant Professor of Architecture, Mansoura University, Mansoura, Egypt. (Part-time)

Sep. 2023 – Sep.2024

- Lead the Teaching process of many courses like Computer & Simulation (ARE205), Human Behavior in Architecture (ARE253), Landscape in interior Architecture (ARE 361), Theories of Architecture (ARE 233), Environmental Design Studio (ARE 321).

Lecturer then promoted to Assistant Professor of Architecture, Badr university in Cairo (BUC), Egypt. (Full-time)

Nov. 2018 – Sep. 2023

- Promoted to **Assistant Professor** at April 2023.
 - Lead the Teaching process of many courses like Design studio (ARC 345), assessment of Building Life cycle (ARC441), Building Economics (ARC315).
 - Lead the Quality assurance team in architecture department during the accreditation process of National Programmatic Accreditation.
- **Lecturer** position Nov. 2018 till March. 2023
 - Participated in the teaching process for many courses like Architecture Design, Working Drawings, and Graduation Project.
 - Joined the Quality Assurance Unit members, which experienced me with many related skills to Quality Assurance.

Lecturer of architecture, Galala University, Suez, Egypt. (Part-time)

Sep. 2022 – Sep. 2023

- Joined the Architecture design & Digital Architecture program as a lecturer.
- Participated in the teaching process of many courses like Environmental Design (ARC131), Building Technologies 1 (ARC215), Theory of Architecture (ARC 131), Sustainability in Urbanism (URB161).
- I participated in the **NAAB Accreditation** of the Architecture design & Digital architecture program.

Lecturer of architecture, Mansoura High institute of Eng. and Technology, Egypt (full-time).

Sep. 2012 – Oct. 2018

- Join in the teaching process for many courses in all architecture levels. And prepare in advance for classes like making presentations. also, I participated in the Quality Assurance team in NARS Accreditation of the Program.

COMMUNITY ENGAGEMENT & PROFESSIONAL SERVICE

Consultant, Investment Committee – Dumyat Governorate (2025 – Present)

- Nominated by Horus University to serve as a consultant, advising on strategic development and sustainable investment initiatives for the region.
- Contributed as consultant and architectural advisor to the restoration and development of two major heritage sites:
 - **Heritage Bridge, Dumyat** – supporting structural and cultural conservation planning.
 - **Oraby Old Castle, Ezbet El-Burj** – advising on adaptive reuse and sustainable preservation strategies.

EDUCATION

Ph.D. in the Architecture Engineering, Mansoura University, Egypt.

Feb. 2018 – March 2023

"Optimizations of Ergonomics' Role to Enhance Human Thermal Comfort and Productivity in Industrial Spaces"

GPA 3.5 in preliminary courses and 93% in the comprehensive test.

MSc. in the Architecture Engineering, Mansoura University, Egypt.

Sep. 2012 – Jun. 2016

"Towards Guidelines for Achieving Psychological Comfort in Mental Hospitals Wards in Mansoura Using BPS Tools"

B.Sc. in the Architecture Engineering, Mansoura University, Egypt.

Aug. 2007 – July 2012

overall, Bachelor of sciences grade "Very good", and "excellent" in Graduation Project (ranked 5th)

RESEARCH ACTIVITES

RESEARCH INTERESTS & METRICS

Research interests

1. Thermal comfort optimization
2. Ai-driven environmental design
3. Energy-efficient architecture
4. Environmental psychology in buildings
5. Industrial ergonomics and design

Verified Citations

Google Scholar citations	49
Google scholar H-index	3.0
Research Gate Citations	43
Research Gate Interest Score	48.2
Scopus Documents	3
Scopus H-index	3.0

PEER REVIEWED JOURNALS PUBLICATIONS

- Aloshan, M.A.; Aldali, K. The Role of Regional Codes in Mitigating Residential Sector Energy Demand Sensitivity to Climate Change Scenarios in Hot-Arid Regions. *Buildings* 2025, 15, 1789. <https://doi.org/10.3390/buildings15111789>
- Aloshan, Mohammed, and Kareem Aldali. "Empirical study of facade retrofits for optimizing energy efficiency and cooling in school buildings in Saudi Arabia." *Energy Reports* 12 (2024): 4105-4128.
- Aldali, K., Nasr Eldin, A. & Elgizawi, L., 2023. The Dilemma between Reducing the Thermal Stress in the Industrial Spaces and Ergonomics Arrangement in Low- and Middle-income Countries. *Civil Engineering and Architecture*, Volume Vol. 11(1), pp. pp. 279 - 293.
- Aldali, K., Zaki, N. & Elgizawi, L., 2020. Sustainability in the Choice of Architectural Elements Coloring and Its Relation to Natural Light Intensity in Internal Spaces of Psychiatric and Neurological Hospitals. *Mansoura Engineering journal*.
- Aldali, K., Zaki, N. & Elgizawi, L., 2016. The Associations between Daylight Sufficiency in Hospital Wards and Patient Satisfaction with Mental Healthcare Services: An Egyptian Sample. *ACTA medical international*.
- Aldali, K., Moustafa, W., 2016. An attempt to achieve efficient energy design for High-Income Houses in Egypt: Case Study: Madenaty City. *International Journal of Sustainable Built Environment*.

SCIENTIFIC CONFERENCES PUBLICATIONS

- Aloshan, M.A.; Aldali, K. Projecting Future Cooling Load and Energy Demand in Saudi Residential Buildings Under Climate Change Scenarios, *Environmental Design, Material Science, and Engineering Technologies (EDMSET) - 2nd Edition conference, 2025, Dubai, UAE*.
- Aldali, K., 2017. Associating Daylight Intensity with Patients Satisfaction in Mental Hospital Wards in Egypt. *Sharm Elsheikh, The 9th. conference of Developing the sustainable environment*.
- Aldali, K. & Elwazeer, M., 2018. Improved Thermal Characteristics and Energy Efficiency in the High-Income residential spaces in Egypt. *Cairo, Cairo University, Architecture department conference 2019 - Towards the Future Now*.

SPOKEN CONFERENCES AND PUBLIC SPEECHES

- Speaker at King Fahd University of Petroleum and Minerals conference titled "the green sustainable future in the kingdom of Saudi Arabia" in January 2025 with a talk titled "climate change future scenarios projecting in Saudi residential sector".
- Speech invitation in the "Arab Academy for science and technology and maritime transport" in May 2025, titled "AI models for climate change prediction in architecture".
- Keynote speaker in "KSU Architecture Day" with a talk titled "AI diffusion in conceptual design" organized by Kafr Elshiekh university, faculty of engineering, architecture department in December 2024

- Keynote speaker in “Architecture between Heritage Conservation and Technology” with a talk titled “AI in Architecture: Post-Bim Revolution” organized by Al-Jazeera Academy, Cairo, Egypt in March 2024
- Keynote Speaker in “Architecture vs. Technology Conference” with a talk titled” How far AI will replace architects” organized by New-Cairo Academy, Cairo, Egypt in May 2024
- The 6th Cairo International Exhibition of Innovation, 2019, in Cairo, Hold by The Academy of Scientific Research and Technology, proposing the innovation of “EGYPTOURGY”
- Eighth international scientific conference (ARCHCAIRO 8). “Building the Future Now: Rights to Better Living, Architecture & Contexts” held by Cairo University – Architectural Department in 2018.
- The 9th Conference of Developing the Sustainable Environment, 2017, in Sharm Elsheikh, Held by Elmoenofia University, Faculty of Engineering.

JOB RELATED SKILLS

- **Academic Leadership & Program Administration**
 - Program coordination, curriculum design, and outcome-based assessment.
 - Accreditation and quality assurance expertise (ABET, NARS).
 - Administrative management including exams, results, and academic operations.
- **Teaching & Student Support**
 - Commitment to student-focused and inclusive learning. Innovative teaching methodologies include blended and e-learning. Academic advising, office hours, and career guidance.
 - Experience in multicultural academic environments and supporting diverse students' needs.
- **Research & Interdisciplinary Collaboration**
 - Strong record of peer-reviewed publications and international conference presentations.
 - Leadership in funded research projects on sustainability, energy efficiency, and AI in architecture.
 - Integration of research into teaching and curriculum development.
 - Collaboration with local and international universities and industry partners.
- **Technical & Digital Tools**
 - Building Information Modeling (BIM): Revit, AI based modeling and fabrication.
 - Building Performance Simulation: DesignBuilder, Envi-met.
 - Digital fabrication and environmental simulation tools.
 - Learning Management Systems (LMS) and e-learning platforms.

WON ARCHITECTURAL PRIZES

- “Design Marathon International Competition” held by ValueTech Engineering Technology, 2021. Won the 5th Prize for the “Zero Energy Pixel Administrative Building” proposal.
- “Taking Leave International Competition” held at The British University in Egypt, 2012, in association with Mina Michele, Ahmed Toto, Hassan Shakwer, and Saad Samir. Won the First Prize.
- “Pedestrian Bridge”, in 2011, held by “design by many” organization in the USA, won the Community Prize.
- “Passive House Design”, 2011, held by “design by many organization in the USA, won the 7th Prize.
- “E2 Landmark & Entrance”, 2010, held by E2 industrial group in Egypt, won the Encouragement Prize.

TEACHING PHILOSOPHY

- As program coordinator, I ensure that curriculum delivery is outcome-based, student-centered, and aligned with accreditation standards, while encouraging innovation in teaching.
- Dedicated to student-centered learning and fostering interdisciplinary approaches in architecture education. Focus on practical applications, mentorship, and continuous learning.
- Engages students in real-world design projects, collaborating with local communities and industry professionals. Emphasizes the practical implications of sustainable and cost-effective design decisions.
- Provides individualized support and feedback to unlock students' full potential.
- Integrates research interests to inspire a passion for lifelong learning.

TAUGHT COURSES

New Mansoura Internation University, Sustainable Architecture & Technology Program	Illumination and ventilation in buildings (ARC355)	2025 (CI)
	Visual Perception, Art, and design (ARC111)	2025 (CI)
	Architecture Design Studio 3	2025 (CI)
	Sustainable Urbanism (ARC476)	2025 (CI)
Horus University in Egypt (HUE), Faculty of Engineering, Architecture Department.	Interior design	2025 (CI)
	Acoustics and illumination (ARC242)	2025 (CI)
	Graduation Project (ARC 492)	2024,2025 (CI)
	Architectural & Urban Legislations (ARC371)	2024, 2025 (CI)
	Computer Applications in Architecture (ARC251)	2024, 2025 (CI)
	Landscape & Urban Design (ARC261)	2024 (CI)
	Building Construction 2 (ARC132)	2024 (CI)
	Building Construction 3 (ARC233)	2024 (CI)
	Execution Documents (ARC 472)	2024 (CI)
Mansoura university, Sustainable Architecture Engineering Program	Architecture Design studio 1 (ARC155)	2024 (CI)
	Architecture & Human Behavior (ARE253)	2024 (CI)
	Computer Applications & Simulation (ARE205)	2024 (CI)
	Landscape in Interior Architecture (ARE 354)	2024 (CI)
Galala University, Architecture Design & Digital Architecture Program	Theories of Architecture (ARE 233)	2024 (CI)
	Environmental Design Studio (ARE 321)	2024 (CI)
	Theory of Architecture (ARC133)	2023 (CT)
	Environmental Studies (ARC161)	2022 (TA), 2023 (CT)
Badr University in Cairo (BUC), Faculty of Engineering, Architecture Program	Sustainability in Urbanism (URB161)	2023 (CT)
	Building Technologies 1 (ARC251)	2022 (TA), 2023 (CT)
	Assessment of building lifecycles (ARC441)	2021 (TA), 2023 (CI)
	Architectural Design Studio 4 (ARC354)	2020, 2021, 2022 (TA), 2023(CI)
	Architectural Design Studio 5 (ARC355)	2019, 2020, 2021, 2022, 2023 (TA)
	Architectural Design Studio 6 (ARC456)	2019, 2020, 2021, 2022, 2023 (TA)
	Graduation Project (ARC492)	2020, 2021, 2022 (TA)
	Landscape (ARC366)	2019,2020 (TA)
	Bids Documents and Contracts	2019,2020 (TA)
	Building Evaluation Codes (ARC338)	2019, 2020, 2021 (TA)
Mansoura High institute of science & Technology, Architecture Department	Building Performance Simulation (ARC415)	2021, 2022 (TA)
	Building Construction 3 (ARC233)	2019 (TA)
	Projects Management (CIV473)	2019, 2020 (TA)
	Architecture Design courses (ARC151)	2013: 2018 (TA)
	Building Construction courses (ARC131)	2013: 2018 (TA)
	Sustainable Architecture (ARC458)	2017,2018 (TA)
	Environmental Control (ARC241)	2015,2016,2017 (TA)
Interior Design (ARC457)	2017, 2018 (TA)	
Acoustics & Illumination (ARC242)	2016, 2017, 2018 (TA)	
Visual Training & Free-hand Drawing (ARC112)	2013, 2014, 2015, (TA)	

CI: Course Instructor | CT: Course Tutor | TA: Teaching Assistant

REFERENCES

- Professor **Mohamed A. Aloshan**. Head of Architecture Department. College of engineering, Imam Mohamed ibn Saud Islamic university, Riyadh, Saudi Arabia. Telephone: +966 54 249 9915 Email: mamoshan@imamu.edu.sa
- Professor **Wael Seddik Mostafa**. Professor & Dean of Engineering Faculty. New Mansoura University, Faculty of Engineering. Telephone: +20-1068856374 Email: Wael_seddik@yahoo.com
- Professor **Mona Awad Elwazir**. Sustainable Architecture Engineering Program Director Mansoura University, Sustainable Architecture Engineering Program. Telephone: +20-1091548522 Email: mawazir@mans.edu.eg

- Professor **Mina Michel Samaan**. Professor of Architecture.
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