

# Personal Information

Date of birth: 17 March 1991 Nationality : Egyptian Languages : Arabic- English

# Contact

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# Links

AUN

RG

https://life.aun.edu.eg/engineering/ randa-mohamed-ahmed-mahmoud

https://scholar.google.com.eg/citatio ns?hl=en&user=jSSHLAoAAAAJ&view\_ op=list\_works%3Cfront%3E%3Cnolink %3E%E2%80%8F

> Randa MOHAMED | Teacher Assistant | MSc Architectural Engineering, TA Architectural Engineering Dep | Assiut University, Asyūt | Department of Architectural Engineering (researchgate.net)

# Randa Mohamed Ahmed Mahmoud

Assistant Lecturer

|Ph.D |student Architect

# Education

### M.SC degree in Architectural Engineering

"Design Framework for Robotic Surgery Ward at Digital Hospitals" © October 2019 - present

- Architectural Dep, Faculty of Engineering, Assiut Un, Assiut, Egypt
- Preparation courses' degree: 86.8%

### $\diamond$ Bachelor of Architectural Engineering:

- i ≦ September 2008 July 2013
- Architectural Dep, Faculty of Engineering, Assiut Un, Assiut, Egypt
- ⊘ Grade: Excellent with honor's degree (87.6%)

# Work Experience

# $\diamond$ Assistant Lecturer (Full time)

- i October 2019 present
- Architectural Dep, Faculty of Engineering, Assiut Un, Assiut, Egypt
  - Academic member at Assiut university for teaching
    undergraduate classes

### $\phi$ Demonstrator (Full time)

- 🖮 November 2014 September 2019
- Architectural Dep, Faculty of Engineering, Assiut Un, Assiut, Egypt

### $\diamond$ Demonstrator (Part time)

- November 2015 September 2018
- $\boldsymbol{\diamond}$  Interior design Dep , Faculty of Engineering, Assiut Un, Assiut, Egypt

# $\diamond$ Architect (Part time)

- November 2015 November 2021
- Smart Consultant Innovations, Dr. Amr Sayed Hassan, Assiut, Egypt
- November 2013 July 2015
- ldea Engineering Consultant, Dr. Mahmoud Morad, Assiut, Egypt

# 🔛 Teaching Experience

- Design Principles
- Visual drawing
- Architectural design 1,2,3,4
- Shadow and perspective
- AutoCad, Revit & 3D Max
  Modelling

# Future Looking Forward to

environmental needs.

- Working drawing 1,2,3.
- Environmental design & climate
- Building laws and regulationsQuantities and specification
  - Graduation Project
- Work in the field of Buildings and Environment integrated with the Architectural technologies for solving the architectural problems and make a balance between the architectural and the

1	Academic Publications	
6	Multi-objective Approach for Optimizing Buildings' Forms and Kinetic Façades Systems in Offiice Buildings Mahmoud, R.M.A., Abdallah, A.S.H. (2024). MEJ Mansoura Engineering Journal, 49, 1-22. DOI: https://doi.org/10.58491/2735-4202.3134	
0	A New Planning Proposal for Achieving Residents' Thermal Comfort in Hot arid Climate- based on simulation model Eid M.A. , Mahmoud, R.M.A., Abdallah, A.S.H. <b>(2023).</b> MEJ Mansoura Engineering Journal, 48, 1-16. DOI: <u>https://doi.org/10.58491/2735-4202.3075</u>	
6	Investigation of Greening Façade and Retrofitting strategies on Outdoor Thermal Comfort and Indoor Energy Consumption in New Assiut City, Egypt Abdallah, A.S.H, Mahmoud, R.M.A. (2023). MEJ Mansoura Engineering Journal, 48, 1-15. DOI: https://doi.org/10.58491/2735-4202.3082	Technical Strength
$\left  \right $	Sustainable Solutions for the Open Spaces of the New desert Egyptian Cities with Considering the Climate Change	
0	Abdallah, A.S.H, Mahmoud, R.M.A. <b>(2022).</b> Arts and Architecture Journal, 3 (2), 159-173. DOI: <u>https://doi.org/10.21608/aaj.2022.275005</u> Assessment of outdoor shading strategies to improve outdoor thermal comfort in school courtyards in hot and arid climates	Simulation software Advanced Level
	Mahmoud, R.M.A., Abdallah, A.S.H. <b>(2022).</b> Sustainable Cities and Society 86, 104147. DOI: <u>10.1016/j.scs.2022.104147</u>	Design Envi-met EnergyPlus Openstu
	Urban morphology as an adaptation strategy to improve outdoor thermal comfort in urban residential community of New Assiut city, Egypt Abdallah, A.S.H, Mahmoud, R.M.A. (2022). Sustainable Cities and Society 78, 103648, poir 10.1016/j.scs.2021.103648	Modelling software
	A Computational Framework for Supporting Architectural Education of Spaces' furnishing Design. Mahmoud, R.M.A. Youssef, A.M.A. (2022). International Journal of Architectural Computing.1-32. DOI: 10.1177/14780771221097683	(A) (B) (R) (K)
0	Design framework for robotic surgery wards at hospitals: Computational implementation. Mahmoud, R.M.A. Youssef, A.M.A. (2020). Frontiers of Architectural Research (2020) 9, 514-540. DOI: 10.1016/j.foar.2020.05.002	AutoCad 3D Max Revit Rhind Grasshopper Sketch up
	Architectural Comparative Analyses between Robotic Surgery Wards in Digital Hospitals and Traditional Surgery Wards in Conventional Hospitals. Mahmoud, R.M.A., Youssef, A.M.A, Abdel Karim, N.M. (2020). Journal of Engineering Sciences 48(2):248-264. DOI: 10.21608/jesaun.2020.135249	
	Comparative Analyses of Computational Implementations for Healthcare Building Design.	
	Mahmoud, R.M.A., Abdel Karim, N.M, Youssef, A.M.A. <b>(2019).</b> Journal of Engineering Sciences 47(No.5):627-643. DOI: <u>10.21608/jesaun.2019.115729</u>	
f G	Academic project	
þ	Integration of inclined solar chimney with passive cooling	A State of the second second

Integration of inclined solar chimney with passive cooling technique to achieve low energy building- Phase 2 (Using PCM material for night cooling).

🖮 January 2020 – December 2020

- ♀ Architectural Dep, Faculty of Engineering, Assiut Un, Assiut, Egypt
  - Modelling and simulation the base case by DesignBuilder and visualizing and analysis the results
  - Research project funded by Science and Technology Development Fund (STDF) in Egypt-Project no. 30067



## **Research Interests**

- Computational design
- Energy Efficiency in Building
- Urbanism
- Parametric Modelling
- Urban climate and Morphology
- Optimization of building forms
- Architectural Urban conditions
- Building & urban simulation

### Internship



# Technical Strength

#### Programming software Intermediate Level •••





Visualization software



#### Workshop of "Urban heat Island" cooperated with Freie University of Berlin

September 2017 – October 2017
 TU Berlin El- Gouna, Egypt

#### LEED GA V.4 training with Dr. Shady Atia

January 2016

Cairo, Egypt

#### Architectural professional internship

<sup>i III</sup> Nov 2015 : Nov 2016

Smart Consultant Innovations, Dr. Amr Sayed, Assiut

#### References:

#### Amr S.H Abdallah

Associate Professor Department of Architectural Engineering, Faculty of Engineering, Assiut Un

E-mail: Dr.amrsayed@aun.edu.eg

#### Amr M.A Youssef

Lecturer, Department of Architectural Engineering, Faculty of Engineering, Assiut Un E-mail: amr.ma.youssef@aun.edu.eg