

1. Personal Information

Name: Mohamed Badawy Abd EL-Megeed
 Academic Rank: Associate Professor
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 University: Ain Shams
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 Scholar Google: <https://scholar.google.com/citations?user=bgBRdCYAAAAJ&hl=ar>

**2. Academic Background**

Degree	Year	Dept., Institution - Country	Major
B.Sc.	1995	Civil engineering – Cairo university	Structural engineering
M.Sc.	2005	Structural engineering – Ain Shams university	Construction management
PhD.	2010	Structural engineering – Ain Shams university	Construction management

3. Employment (Academic and Industrial) History

From	To	Rank	Dept., Institution - Country
1998	2005	Demonstrator	Structural engineering – Ain Shams university
2005	2013	Teacher Assistant	Structural engineering – Ain Shams university
April 2013	July 2020	Lecturer	Structural engineering – Ain Shams university
July, 2020	Now	Associate Professor	Structural engineering – Ain Shams university
Sep. 2021	August 2024	General manager of Development and Rehabilitation of Educational Projects	Education Development Fund - Presidency of the Council of Ministers.
December, 2022	March, 2023	Vice Dean	Faculty of Technology in Cairo - Misr International Technological University
March, 2023	March, 2024	Dean	Faculty of Technology in Cairo - Misr International Technological University

4. Teaching Experience

- Project Management
- Resources Management
- Risk and safety management
- Computer Applications in Construction Management (Primavera)
- Construction Equipment's
- Tenders and contracts
- General Construction Management
- Construction Cost Estimate
- Construction Finance & Economics
- Project Planning & Control
- Graduation Project
- Senior seminar

5. Research Experience**a- Research interest:**

- Project Management
- Project schedules.
- Cost estimating and monitoring.
- Risk management
- Contracts, claims, and disputes management.
- Feasibility studies.
- Work progress monitoring.

b- Supervised students:

# of students	Degree	Major	Institution, Country	Status (complete, ongoing)
8	Master of Engineering	Project Management	Ain Shams University, Egypt	Completed
8	Master of Engineering Science	Project Management	Ain Shams University, Egypt	Completed
1	Master of Engineering Science	Project Management	Military Technical College, Egypt	Completed

15	Master of Engineering Science	Project Management	Ain Shams University, Egypt	Ongoing
1	Master of Engineering Science	Project Management	Zakzek University, Egypt	Ongoing
2	PhD	Project Management	Ain Shams University, Egypt	Completed
4	PhD	Project Management	Ain Shams University, Egypt	Ongoing

6. Publications

a- total number of publications

Publication	Patent	Journal papers	Conference Papers	Workshop	Abstract/ Discussion	Reports	Books	Total no.
No.:	-	33	3	-	-	-	-	36

b- Details of Journal Papers for the last 5 years only:

- [1] H. M. Toma, S. El-Sayed, A. H. Ibrahim, and M. Badawy, "Hybrid Evaluation Model to assess the overall barriers of public-private partnership contracts," *Int. J. Constr. Manag.*, pp. 1–10, May 2024, doi: 10.1080/15623599.2024.2358584.
- [2] M. Y. Altanany, M. Badawy, G. A. Ebrahim, and A. Ehab, "Modeling and optimizing linear projects using LSM and Non-dominated Sorting Genetic Algorithm (NSGA-II)," *Autom. Constr.*, vol. 165, p. 105567, Sep. 2024, doi: 10.1016/J.AUTCON.2024.105567.
- [3] S. M. Elseufy, A. Hussein, and M. Badawy, "Harnessing machine learning and structural equation modelling to quantify the cost impact of rework in bridge projects," *Asian J. Civ. Eng.*, vol. 25, no. 5, pp. 3929–3941, Jul. 2024, doi: 10.1007/s42107-024-01021-z.
- [4] S. El-Habashy, F. K. Alqahtani, M. Mekawy, M. Sherif, and M. Badawy, "Identification of 4D-BIM Barriers in Offshore Construction Projects Using Fuzzy Structural Equation Modeling," *Build. 2023, Vol. 13, Page 1512*, vol. 13, no. 6, p. 1512, Jun. 2023, doi: 10.3390/BUILDINGS13061512.
- [5] M. Osama, A. Sherif, and M. Badawy, "Risk analysis of construction of administration projects using Bayesian networks," *J. Eng. Des. Technol.*, vol. 21, no. 1, pp. 281–298, Jan. 2023, doi: 10.1108/JEDT-04-2021-0222.
- [6] M. Badawy, F. K. Alqahtani, and M. A. Sherif, "Impact of the COVID-19 pandemic on risk factors in residential projects," *J. Asian Archit. Build. Eng.*, vol. 22, no. 3, pp. 1637–1647, May 2023, doi: 10.1080/13467581.2022.2097239.
- [7] S. M. Elseufy, A. Hussein, and M. Badawy, "A hybrid SEM-ANN model for predicting overall rework impact on the performance of bridge construction projects," *Structures*, vol. 46, pp. 713–724, Dec. 2022, doi: 10.1016/j.istruc.2022.10.100.

- [8] G. Taha, A. Sherif, and M. Badawy, "Dynamic Modeling for Analyzing Cost Overrun Risks in Residential Projects," *ASCE-ASME J. Risk Uncertain. Eng. Syst. Part A Civ. Eng.*, vol. 8, no. 3, p. 04022041, Sep. 2022, doi: 10.1061/AJRUA6.0001262.
- [9] M. Badawy, F. K. Alqahtani, and M. Sherif, "A Multilayer Perception for Estimating the Overall Risk of Residential Projects in the Conceptual Stage," *Buildings*, vol. 12, no. 4, p. 480, Apr. 2022, doi: 10.3390/buildings12040480.
- [10] M. Badawy, F. Alqahtani, and H. Hafez, "Identifying the risk factors affecting the overall cost risk in residential projects at the early stage," *Ain Shams Eng. J.*, vol. 13, no. 2, p. 101586, Mar. 2022, doi: 10.1016/j.asej.2021.09.013.
- [11] M. Elsebaei, O. Elnawawy, A. A. E. Othman, and M. Badawy, "Causes and impacts of site accidents in the Egyptian construction industry," *Int. J. Constr. Manag.*, vol. 22, no. 14, pp. 2659–2670, Oct. 2022, doi: 10.1080/15623599.2020.1819523.
- [12] G. Taha, A. Sherif, and M. Badawy, "Overall Cost Overrun Estimate in Residential Projects: A Hybrid Dynamics Approach," *Appl. Comput. Intell. Soft Comput.*, vol. 2022, pp. 1–17, Sep. 2022, doi: 10.1155/2022/2285971.
- [13] M. Badawy, A. Hussein, S. M. Elseufy, and K. Alnaas, "How to predict the rebar labours' production rate by using ANN model?," *Int. J. Constr. Manag.*, vol. 21, no. 4, pp. 427–438, Apr. 2021, doi: 10.1080/15623599.2018.1553573.
- [14] M. Badawy, "Second-order confirmatory factor analysis model for estimating the overall risk of change orders in road projects," *J. Eng. Des. Technol.*, vol. 20, no. 5, pp. 1217–1235, Aug. 2022, doi: 10.1108/JEDT-09-2020-0383.
- [15] M. Elsebaei, O. Elnawawy, A. Othman, and M. Badawy, "Elements of Safety Management System in the Construction Industry and Measuring Safety Performance – A Brief," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 974, no. 1, p. 012013, Dec. 2020, doi: 10.1088/1757-899X/974/1/012013.
- [16] M. Badawy, "A hybrid approach for a cost estimate of residential buildings in Egypt at the early stage," *Asian J. Civ. Eng.*, vol. 21, no. 5, pp. 763–774, Jul. 2020, doi: 10.1007/s42107-020-00237-z.
- [17] M. A. Elsebaei, O. Elnawawy, A. A. E. Othman, and M. Badawy, "A framework to activate the health and safety regulations in the Egyptian construction industry," *J. Eng. Des. Technol.*, vol. 19, no. 5, pp. 1158–1191, Aug. 2021, doi: 10.1108/JEDT-05-2020-0194.
- [18] A. Balbaa, O. El-Nawawy, K. El-Dash, and M. Badawy, "Risk assessment for causes of variation orders for residential projects," *J. Eng. Appl. Sci.*, vol. 14, no. 3, pp. 701–708, 2019, doi: 10.3923/jeasci.2019.701.708.
- [19] S. Elseufy, A. Hussein, M. Badawy, and K. Alnaas, "Factors affecting the productivity of reinforcement work labours in low-cost residential buildings," *Malaysian Constr. Res. J.*, vol. 29, no. 3, pp. 49–63, 2019.

7. Training experiences:

- A lecturer at the Ministry of Public Works and Water Resources.
- A lecturer at the training center, roads and bridges body.

- A lecturer at the Housing and Building Research Center.
- A lecturer in the training sector at the Ministry of Military Production.
- A lecturer at the Arab Contractors Company training center.
- A lecturer for the Roads and Bridges Authority training center.
- A lecturer at the National Construction and Development Company.
- A lecturer at several training centers for project management courses.
- A lecturer at the Society of Mechanical Engineers.

8. Practical Experience

- Design and supervision of 56 Commercial and residential buildings.
- Design 14 private villas.
- Participated in the design of three tourist villages.
- Overseeing the implementation of nine residential towers.
- Design and oversee the implementation of the factory ARTEX Tenth of Ramadan.
- Participated in several experiments on the loading bridges - the unity of reinforced concrete research - Ain Shams University.
- Participated in several tests on the concrete - Reinforced concrete research unit - Ain Shams University.
- Participated in the evaluation of drilling equipment company Hassan Allam - Unit Reinforced Concrete Research & Project Management - Ain Shams University.
- A textured geometric at State Council.
- Member of the Committee risk management of the Faculty of Engineering, Ain Shams University.
- Supervising the project to develop and rehabilitate the integrated technological complex in Al-Amiriya - Cairo - contracted by the Arab Contractors Company.
- Chairman of the Reconciliation Committee on some building violations in Cairo Governorate 2020.
- Supervising the project to develop and rehabilitate the integrated technological complex in Assiut - contracted by Al-Banna Contracting Company – Sep. 2021.
- Supervising the project to develop and rehabilitate the integrated technological complex in Demo - Fayoum - Al-Waad Al-Sadiq Company – Jan. 2022.
- Supervising the project to develop and rehabilitate the integrated technological complex in Abu Ghaleb - Giza - a contract of the Military Intelligence Authority- Sep. 2022.
- Supervising the construction work of a theater, stadium, gate, and general layout at Misr International Technological University - a contractor of the Military Production Authority- October 2023.

9. Computer Skills

IBM SPSS - MATLAB - AMOS - AnyLogic Primavera- Microsoft Office