

Assistant Professor in Civil Engineering and Consultant Structural Engineer

Personal Information:

Mohamed Gamal Aboelhassan

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Nationality: Egyptian

Date of Birth: December 6th, 1980

Marital Status: Married and have 2 children

ORCID: 0000-0002-6272-3701



Education:

August 2025- Present: **International Master's in Cultural Property Protection in Crisis Response** Academic Year 2025/2026, University of Turin, Italy.

January 2021: **Doctor of Philosophy in Structural Engineering**
Thesis Title: "Behavior of Precast Reinforced Concrete Beam-Column External Connections under Cyclic Loading" - Structural Engineering Department, Faculty of Engineering, Alexandria University, Egypt.

April 2006: **Master of Science in Structural Engineering**
Thesis Title: "Effect of Beam Stiffness on the Behavior of Reinforced Concrete Slender Columns" - Structural Engineering Department, Faculty of Engineering, Alexandria University, Egypt.

June 2002: **Bachelor of Science in Civil Engineering**
Very Good with a Degree of Honor - Faculty of Engineering, Alexandria University, Egypt.

Languages:

Arabic (Mother Tongue) and **English** (Very Good).

Computer Skills:

- Microsoft Office.
- Programs and Software based on the Finite Element Method (ETABS, SAP 2000, SAFE SeismoStruct).
- AUTO-CAD.

Teaching Experiences:

09/2024-present: **Assistant Professor (Part-time)**
Alamein International University (AIU), New Al-Alamein City, Egypt.
CIV211: Concrete Structures Design-1, Architectural Department.
CIV233: Properties of Material, Soil Mechanics, and Foundations.
CIV452: RC High Rise Buildings, Civil Department.
CIV454: Liquid Containing Structures, Civil Department.

03/2021-present: **Assistant Professor**
Higher Institute of Engineering and Technology-King Mariout, Alexandria, Egypt.

- CVE100 (Theory of Structures), Architectural Engineering Department.
- CVE250 (Reinforced Concrete), Architectural Engineering Department.
- CVE101 and CVE102 (Structural Analysis), Civil Engineering Department.
- CVE251, CVE355, and CVE457 (Design of Reinforced Concrete Structures), Civil Engineering Department.
- CVE421 (New Building Materials), Civil Engineering Department.

- CVE443 (Erection of Concrete Structures), Civil Engineering Department.
 - CVE491 and CVE499 (Graduation Project: Design of reinforced concrete structures and the properties and testing of materials).
- 09/2006-06/2012: **Assistant Lecturer**
Faculty of Engineering, Alexandria University, Egypt.
- CE161, CE163, CE264, and CE265 (Theory of Structures), Civil Engineering Department.
 - CE267 and CE268 (Theory of Structures), Architectural Engineering Department.
- 09/2002-09/2006: **Teaching Assistant**
Faculty of Engineering, Alexandria University, Egypt.
- CE161 and CE163 (Theory of Structures), Civil Engineering Department.
 - CE267 and CE268 (Theory of Structures), Architectural Engineering Department.

Engineering Work Experience:

- 12/2021-Present: **Co-Founder, Project developer, and Head of Material Research and Development**
TesserianTech S.R.L, Milan, Italy.
TesserianTech is a startup company that offers a sustainable and cost-effective solution for the 3D concrete printing of structures of any size. Currently, the company is searching for investors.
- 02/2021-12/2024: **Founder and General Manager**
MGA Consulting Engineers, Alexandria, Egypt.
- 08/2021-12/2024: **Structural Consultant (ADD Architects – UNESCO)**
a structural consultant engineer in the consulting team for the structural design and the rehabilitation process, as well as the site assessment of the reconstruction and rehabilitation of the 12th-century Grand Al-Nouri Mosque in Mosul, Iraq.
- 06/2019-03/2021: **Chairman Consultant**
Dar Almaaly for Development & Real Estate Investment, Cairo, Egypt.
Union Industry Medical & Plastic, Cairo, Egypt.
- 06/2016-06/2019: **Executive Manager**
Dar Almaaly for Development & Real Estate Investment, Cairo, Egypt.
My responsibilities included the overall operation and management of the company, creating teams, inspecting sites, monitoring progress, and dealing with clients.
- 01/2013-04/2016: **Consultant Project Manager- Senior Design Engineer**
Almaali Consultant (Consultant Office), Riyadh, Kingdom of Saudi Arabia.
I was responsible for the structural design, besides the responsibilities of the consultant project manager for the Rima Bakery Factory Project, El-Qassim, Saudi Arabia.
- 04/2008-02/2021: **Self-Senior Structural Design Engineer**
Designing different types of buildings in Saudi Arabia with Afnan Architect Design and Studio, Alexandria, Egypt.
- 05/2006-12/2012: **Co-Founder and Structural Design Department Manager**
Engineering House for Services and Consultant Engineering (Design and Contracting Office), Alexandria, Egypt.
- 09/2002-10/2008: **Structural Design Engineer**
Civil Engineering Center (Consultant Office), Alexandria, Egypt.

Training Courses and Workshops:

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| June 2025 | • Structural conservation of built heritage (Phase II) - ICCROM Regional Center in Sharjah. |
| October 2024 | • Structural conservation of built heritage - ICCROM Regional Center in Sharjah. |
| March 2023 | • Description of programs and courses in light of the competencies/competencies approach to the engineering sector (NARS 2018) - The National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt. |
| February 2023: | • Exams and Students' Assessment Systems: Faculties and Institutes of Higher Education - The National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt. |
| | • Teaching Strategies and Effective Learning: Faculties and Institutes of Higher Education - The National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt. |
| | • Strategic Planning: Faculties and Institutes of Higher Education - The National Authority for Quality Assurance and Accreditation of Education (NAQAAE), Egypt. |
| April 2022: | • International Publishing in Research - Faculty and Leadership Development Center, Alexandria University Egypt. |
| | • Quality Standards in Teaching - Faculty and Leadership Development Center, Alexandria University Egypt. |
| February 2022: | • Adaptive Reuse Principles Workshop - (IMCT) Integrated Management of Culture Tourism and USAID, Egypt. |

Professional Qualifications:

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| February 2021: | • Consultant Structural Engineer (Design of Reinforced Concrete Structures)
Reg. No. 0106947 given by the Egyptian Engineering Syndicate, Egypt. |
| January 2013: | • Professional Engineer in Civil Engineering
Reg. No. 114206 given by the Saudi Council of Engineers, Kingdom of Saudi Arabia. |
| June 2002: | • Civil Engineer
Reg. No. 2501093 given by the Egyptian Engineering Syndicate, Egypt. |

Scientific Publications:

- [1] Ahmed M. Yassin, Mohamed A. Hafez, Mohamed G. Aboelhassan (2025), "Experimental and Numerical Investigation on the Effect of Different Types of Synthetic Fibers on the Flexure Behavior and Mechanical Properties of 3D Cementitious Composite Printing Provided with Cement CEM II/A-P". Buildings, Volume 15 Issue 7, 1201. [https:// doi.org/10.3390/buildings15071201](https://doi.org/10.3390/buildings15071201).
- [2] Mohamed Gamal Aboelhassan, Ahmed Mokhtar Tarabia, and Sherif Farag Hassan (2023), "Reconstruction and rehabilitation of the Grand Al-Nouri Mosque dated to the twelfth century: a case of study". Journal of Engineering and Applied Science, Volume 70 Issue 1, PP. 1-22. DOI: 10.1186/s44147-023-00281-x.
- [3] Mohamed Gamal Aboelhassan (2023), "Future of Sustainable Construction Industry: A Review of Research, Practice and Applications of 3D Concrete Printing", Adv Civil Eng Tech, Volume 5 Issue 4, ACET.000616, DOI: 10.31031/ACET.2023.05.000616.
- [4] Ahmed M. Tarabia, and Mohamed G. Aboelhassan (2022), "Nonlinear Finite-Element Modeling of Precast Reinforced Concrete Moment-Resisting Frames", the International Review of Civil

Engineering (IRECE), Volume 13 Issue 6, PP. 444-454, DOI: 10.15866/irece.v13i6.21564.

- [5] Mohamed G. Aboelhassan, Ahmed M. Tarabia, and Ahmed M. Yassin, (2022), “Pullout Behavior of Anchored Steel Bars and Grouted Headed Bars”, the International Review of Civil Engineering (IRECE), Volume 13 Issue 5, PP. 368-375, DOI: 10.15866/irece.v13i5.21519.
- [6] M. G. Aboelhassan, M. E. Shoukry, and S. M. Allam (2022), “Effect of the connecting beam stiffness on the bracing limit for reinforced concrete slender columns in single and multi-story frames”, Rev. IBRACON Estrut. Mater., Volume 15 Issue 2, e15209, DOI: 10.1590/s1983-41952022000200009.
- [7] Mohamed G. Aboelhassan (2021), “Nonlinear Simulation of Reinforced Concrete Moment Resisting Frames under Earthquakes”, International Journal of Science and Research (IJSR), Volume 10 Issue 3, PP. 736 – 743, DOI: 10.21275/sr21311214003.
- [8] Ahmed M. Tarabia, Emad E. Etman, Said M. Allam and Mohamed G. Aboelhassan (2021), “Modeling of Precast Reinforced Concrete Beam-column Joints Under Cyclic Loading”, Journal of Earthquake Engineering, Volume 26 Issue 14, PP. 7626-7655, DOI: 10.1080/13632469.2021.1964651.
- [9] Ahmed Tarabia, Said Allam, Emad Etman, and Mohamed Aboelhassan (2019), “Behavior of Precast Reinforced Concrete Beam-Column External Connections under Cyclic Loading”, WIT Transactions on The Built Environment, Volume 185, 27-43, DOI: 10.2495/eres190031.

Editorial Duties Referee/Reviewer:

Journals	• Advances in Structural Engineering, Saga Journals, Clarivate and Scopus (Q1). • Revista de la Construcción, Journal of Construction (RDLC), Web of Science (Q3). • Al-Rafidain Engineering Journal (AREJ), Mosul University, Iraq. • Mansoura Engineering Journal (MEJ), Mansoura University, Egypt, Elsevier.
Conferences	• 10th International Conference on Mechanical Engineering, Materials Science and Civil Engineering (ICMEMSCE2023), Sanya, China, December 28-29, 2023. • 4th International Conference on Architecture & Interior Design (ICAD2023), Mosul University – Tishk International University (TIU), Kurdistan Region, Iraq, November 28-29, 2023.