Dr. Mamdouh Sayed Abdelbaqi Khalil

Ph.D. in Civil Engineering – Structural Engineering

Academic Curriculum Vitae | Updated 10 October 2026

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Nationality	Egyptian

ACADEMIC PROFILE

Structural Engineering Lecturer and academic professional with experience in university teaching, structural engineering research, postgraduate supervision, academic leadership, quality assurance, curriculum development, and scientific peer review. Currently assigned to supervise the Construction and Building Engineering Department at the Higher Institute of Engineering and Technology, Al-Tod, Luxor. Research interests focus on reinforced concrete structures and hybrid FRP–steel reinforcement systems. Additional experience includes professional structural engineering practice and elected leadership roles within the Qena Engineers Syndicate.

ACADEMIC QUALIFICATIONS

- **Ph.D. in Civil Engineering,** Faculty of Engineering, Aswan University, Egypt, 2023.
- **M.Sc. in Civil Engineering,** Faculty of Engineering, Assiut University, Egypt, 2019. Overall Grade: Very Good.
- **B.Sc. in Civil Engineering (Structures),** Faculty of Engineering, Al-Azhar University, Qena, Egypt, 2015. Overall Grade: Excellent with Honors (87.40%); Graduation Project: Excellent.

ACADEMIC APPOINTMENTS

- **Lecturer in Structural Engineering**, Higher Institute of Engineering and Technology, Al-Tod, Luxor, Egypt | 13 May 2023 – Present.
- **Assigned Supervisor, Construction and Building Engineering Department**, Higher Institute of Engineering and Technology, Al-Tod, Luxor, Egypt | 21 September 2026 – Academic Year 2026/2027. Assigned by an official decision of the Institute Dean.
- **Assistant Lecturer**, Higher Institute of Engineering and Technology, Al-Tod, Luxor, Egypt | 19 September 2020 – 13 May 2023.
- **Teaching Assistant**, Higher Institute of Engineering and Technology, Al-Tod, Luxor, Egypt | 1 August 2015 – 19 September 2020.

TEACHING EXPERIENCE

Structural Engineering Courses

- Structural Analysis
- Reinforced Concrete
- Design of Steel Structures
- Earthquake-Related Structural Engineering Topics

Other Civil Engineering Courses

- Properties of Materials
- Quantity Surveying and Estimation
- Road Engineering
- Transport Planning and Traffic Engineering

- Design of Irrigation Structures

Academic Project Supervision

- Supervision of undergraduate graduation projects and course projects in reinforced concrete, foundations, steel structures, and road engineering.

ACADEMIC QUALITY, CURRICULUM & ADMINISTRATION

- **Quality Unit Coordinator:** Higher Institute of Engineering and Technology, Al-Tod, Luxor, Egypt (13 June 2023 – 24 July 2024).
- **Departmental Academic Administration:** Assigned to supervise the Construction and Building Engineering Department for the academic year 2026/2027, pursuant to the Institute Dean's decision dated 21 September 2026.
- **Quality Assurance and Academic Evaluation:** Participated in institutional quality-assurance activities, academic evaluation, and course evaluation processes.
- **Curriculum and Academic Bylaw Development:** Participated in committees responsible for reviewing and developing academic programs, course specifications, and institutional academic bylaws.
- **Examination and Assessment Administration:** Participated in examination committees and examination-control activities, including committee membership and chairing responsibilities.
- **Student Activities and Academic Leadership:** Served as Faculty Advisor of the “Ana Mohandes” (I Am an Engineer) Student Family at the Higher Institute of Engineering and Technology, Al-Tod, Luxor, Egypt.

RESEARCH INTERESTS

- Reinforced Concrete Behavior and Structural Performance.
- Hybrid FRP–Steel Reinforcement Systems, with Emphasis on GFRP–Steel-Wire Hybrid Bars.
- GFRP and CFRP Reinforcement and Bond Behavior with Concrete.
- Flexural Strength, Ductility, and Serviceability of Reinforced Concrete Members.
- Experimental Investigation and Mechanics-Based Analytical Modeling of Reinforced Concrete Beams.
- Shear Behavior and Flexure–Shear Interaction in Reinforced Concrete Members.

PUBLISHED SCIENTIFIC WORK

A. Peer-Reviewed Journal Articles

1. **Experimental Investigation of the Tensile Strength of the Hybrid Fibres Reinforced Polymer (FRP).** *International Journal of Civil Engineering & Technology (IJCIET)*, Vol. 11, Issue 5, May 2020.
2. **Evaluation of the Local Manufacturing and Bond Behaviour of GFRP Rods Hybridized with Steel Wires for Concrete Reinforcement.** *International Journal of Civil Engineering & Technology (IJCIET)*, Vol. 11, Issue 5, May 2020.
3. **Experimental Investigation of the Flexural Behaviour of Concrete Beams Reinforced with Hybrid Bars (GFRP Bars with Steel Wires).** *International Journal of Scientific and Engineering Research*, August 2021.
4. **Flexural Behavior of Beams Reinforced with Hybrid of Bars from (GFRP) and (CFRP) Bars.** *International Journal of Scientific and Engineering Research*, September 2021.
5. **Flexural Behaviour of Hybrid Bar Reinforced Concrete Beams (GFRP Bars with Steel Wires): An Experimental Study.** *Aswan University Journal of Sciences and Technology*, June 2023.

B. Conference Papers

1. **Bond Behavior of a New Types of FRP Reinforcement.** *International Conference on Civil and Environmental Engineering*, Hurghada, Egypt, 24–26 November 2018.

MANUSCRIPTS UNDER REVIEW

Structural Effects of GFRP–Steel Hybridization Architecture in Reinforced Concrete Beams: Strength, Ductility and Serviceability Trade-Offs. *Engineering Structures*, Manuscript No. ENGSTRUCT-D-26-09737. Submitted September 2026; under review (status confirmed on 5 October 2026).

PEER-REVIEW / SCIENTIFIC SERVICE

Journal Reviewer

- **Aswan University Journal of Sciences and Technology (AUJST):** Served as a scientific reviewer, completing six documented peer-review assignments between July 2025 and September 2026.

Recognition and Awards

- **Certificate of Excellence in Reviewing**, *Journal of Engineering Research and Reports (JERR)*, October 2026, in recognition of an outstanding contribution to the quality of the journal.

POSTGRADUATE SUPERVISION

- **M.Sc. Thesis Supervision – Structural Engineering:** Currently serving as a co-supervisor of a Master's thesis in Structural Engineering.

PROFESSIONAL LEADERSHIP & COMMUNITY SERVICE

- **Treasurer**, Qena Engineers Syndicate, Egypt (2024–Present).
- **Board Member**, Qena Engineers Syndicate, Egypt (2020–2022).
- **Member, Technical Committee for Building Violation Reconciliation**, Qena, Egypt (Since September 2021).
- **Election Supervisor**, Engineers Syndicate Elections (2018 and 2020).
- **Vice President**, Charitable Association, Egypt.
- **Professional and Community Engagement:** Active participation in engineering training, professional development, and community-service initiatives through Qena Engineers Syndicate.

PROFESSIONAL ENGINEERING EXPERIENCE

Structural Engineer – Al Khalil Group, Egypt and Saudi Arabia (Remote)

May 2020 – November 2023

- Participated in structural design activities as part of the engineering team.

Site Engineer – Sahmoud Sons Company, Egypt

May 2016 – September 2017

- Supervision of residential construction projects and on-site construction activities.

Structural Engineer – Consulting and Engineering Services House, Luxor, Egypt

July 2015 – April 2016

- Structural design, site supervision, and quantity surveying.

TRAINING DELIVERY & TECHNICAL COURSES

Engineering Training and Knowledge Transfer

- Participated in the delivery of professional engineering training activities through Engineers Syndicate branches in Qena and Luxor, Egypt (2018–2022).

- Training activities covered structural engineering applications using AutoCAD, SAP2000, ETABS, and SAFE.

Technical Training and Professional Development

- Reinforced Concrete Structures Diploma.
- Structural Analysis and Design Using SAP2000.
- AutoCAD Training.
- Autodesk Revit Training.
- Shop Drawings and Quantity Surveying.
- Technical Office Engineering.
- International Computer Driving Licence (ICDL).

SELECTED EARLY PRACTICAL TRAINING

• The Arab Contractors — Engineering Training (2012).
• Local Council, Farshout — Engineering Training (2013).
• Aluminum Plant, Nag Hammadi — Engineering Training (2014).
• Irrigation Engineering, Nag Hammadi — Engineering Training (2014).
• Bauer Egypt — Specialized Foundations Training (2014).
• South Valley University — Construction Engineering Training.

TECHNICAL SKILLS

- **Structural Analysis & Design Software:** SAP2000, ETABS, SAFE, and CSI Column.
- **Computer-Aided Design & BIM:** AutoCAD and Autodesk Revit.
- **Structural Engineering Practice:** Structural analysis and design, preparation of shop drawings, quantity surveying, and technical office works.
- **Computer & Productivity Skills:** Microsoft Office applications (Word, Excel, and PowerPoint) and general computer proficiency.

LANGUAGES

- **Arabic:** Native.
- **English:** Good command of spoken and written English.