



Ahmed Essam Osman

Structural Engineer



+2 01011438229



[linkedin.com/in/ahmed-esamosman](https://www.linkedin.com/in/ahmed-esamosman)



ahmed.esam1523@gmail.com
a.essam@dhiet.edu.eg



Mansoura-Egypt



Personal Information

- Date Birth: 1 June 1994
- Nationality: Egyptian
- Social status: Married
- Military status: Performed



Personal Skills

- Communication skills
- Creativity
- Teamwork
- Presentation skills
- Leadership
- Academic Teaching



Area of Expertise

- Concrete Structures
- Structural Design
- Repair materials
- Material Science
- BIM Technology
- Structure Analysis
- Harbors Design



Awards

Awarded From the General Egyptian Engineers Syndicate for an outstanding graduation project in 2017.



Languages

- Arabic: Native Speaker
- English: Proficient



Summary

Structural Engineer and lecturer with 5 years of experience in structural design and teaching several courses related to structural design topics according to the authenticated syllabus. Besides, immense teamworking, communication and coordination skills. A master's degree holder in structural engineering.



Education

• BSc in structural Engineering

- Delta Higher Institute for Engineering & Technology in Mansoura (2012-2017).
- Cumulative Grade (GPA 3.66 / Percent 89.5 %) Excellent.
- Graduation project "Design of Reinforced concrete structures" excellent grade

• MSc. in structural Engineering

- Faculty of engineering, Mansoura University.
- Thesis title "Eco-friendly ultra-high-performance concrete" (2023).



Technical skills



AutoCAD



Revit Structure



Civil 3D



Robot Structural



Sketch up



Office



CSI ETABS



CSI SAFE



CSI SAP



CSI COLUMNS



ADAPT-Builder



Courses & Workshops

- Mastering BIM Diploma for ARC+STR (Revit structure + architecture + Navis work + Dynamo + Enscape 3d)
- Structural design using Revit + robot +CSI program (American code)
- Diploma in road design



Published Research

- M. Tahwia, Ahmed Essam, and B. A. Tayeh, "Enhancing sustainability of ultra-high performance concrete utilizing high-volume waste glass powder," Case Stud. Constr. Mater., vol. 17, no. October, p. e01648, 2022, doi: 10.1016/j.cscm. 2022.e01648.
- Ahmed Essam, Mostafa, S. A., Khan, M., & Tahwia, A. M. (2023). Modified particle packing approach for optimizing waste marble powder as a cement substitute in high-performance concrete. Construction and Building Materials, 409, 133845



EXPERIENCE

Experience

Junior Engineer (before graduation)

Oct 2015 – Apr 2017

- **Project:** Educational buildings
- **Responsibilities:**
 - Finishing (7 schools)
 - Finishing work (masonry, plaster, ceramic, painting, marble)
 - Review all design and shop drawings, specification, and project requirements.
 - Plan, order and supervise the execution of works.

Site Engineer

Jun 2017 – Sep 2017

- **Project:** Residential Tower
- **Responsibilities:**
 - Civil work (excavation, raft, shear wall, column, flat slab, footing, casting, testing, Isolate formwork, form work, reinforcement work).
 - Review all design and shop drawings, specification, and project requirements.

Technical office engineer

Jan 2018 – Mar 2018

- **Project:** Al Galala City
- **Responsibilities:**
 - Designing Al Galala City roads (determining alignment, widths, super elevation, and number of layers calculating the quantities of cuts and excavations, determining the locations of floods, and designing culverts.

Technical office engineer

Apr 2018 – Feb 2019

- **Project:** June 30
- **Responsibilities:**
 - The first stage (supervision by Hassan Allam), reviewing engineering plans, and inventorying quantities for the road.
 - The second stage (supervision of Orascom), designing the road, reviewing the engineering plans and extracts, and inventorying the quantities for the road.
 - Designing two stage of 30 June 30 road (determining alignment, widths, super elevation, and number of layers calculating the quantities of cuts and excavations, determining the locations of floods, and designing culverts.

Technical office engineer

Sep 2019 – Present

- **Project: 6 Villes + 9 Residential Tower**
- **Responsibilities:**
 - **Developing architectural proposals and working on developing the structural system and designing concrete structures (shallow and deep foundations, columns, beams, shear walls, and slabs, whether they are solid slabs, flat slabs, or hollow block slab) using Revit + robot +CSI program.**
 - **Design of residential towers against earthquakes and winds.**
 - **Estimating quantities using traditional equations and the Revit.**