

**Hala H Abdelfattah, Ph.D.**

Lecturer of civil engineer,  
High Institute for Engineering & Technology - Obour,  
Ministry of Higher Education (MHE).  
Egypt



Phone: 01006203465

Email: [hala.hashem@oi.edu.eg](mailto:hala.hashem@oi.edu.eg)

### 1.1 SUMMARY

Exceptionally talented tutor with over 18 years of teaching experience. Willingness to take on added responsibilities to meet team goals. Special skills in technical writing, research papers editing and organized sessions in improving writing skills tools. Providing design and drafting services for detail road design phase work. Estimating project cost and resource requirement.

### 1.2 SKILLS

- High knowledge of concrete design, and land surveying.
- Extended knowledge of highway and traffic engineering, drainage design, roadside design, and structural design.
- In-depth knowledge of highway and major road construction materials
- Understanding of roadway and highway design.
- Expertise in AutoCAD, civil 3D, and other drawing programs
- a strong working knowledge of AASHTO standards.
- In-depth knowledge of road engineering methods and techniques
- Able to plan and create drawings for a variety of roads.

### 1.3 EDUCATION

**Ph.D.**, Helwan University, 2022.

Major: Microbial rigid pavements

**Master of science**, Helwan University, 2017.

Major: warm mix asphalt pavement

**B.Sc.**, Helwan University, 2001.

Major: civil

## 1.4 POSITIONS HELD PRIOR TO MHE

### Academic - University

Research Assistant, Mataria School of Engineering, Helwan university -  
Cairo (September, 2001 - October, 2002).

### Elaraby office company.

civil in site Engineer (2002 - 2003).  
in site construction work, Prepared contract documents

### Consulting engineering office.

- Construction design Engineer "part time" (2003 - 2005).  
- Road Design reviewer (2008 - 2011).  
Design concrete structures, prepared drawings.  
Review Planning, drawing, and quantity calculation.

## 1.5 LICENSURES AND CERTIFICATIONS

Edexcel learning program, Teaching and learning strategies, UK. (April  
2008- July 2009)

Leadership for Know About Business (KAB) Accredited Professional  
program, International Labour Organization -DWT/CO – Cairo, funded  
by the Canadian international development agency. (2014).

Workshop training: Sustainability in green building Design Course  
Development: on LEED training course.

## 1.6 RESEARCH

### Published papers

Tawhed, W., Ouf, M. S., Elsherbiny, G., Kalaba, M., & Mostafa, A.  
(2022). Improvement of Rigid Pavement Performance Using  
Microbial Agent. *Journal of Al-Azhar University Engineering  
Sector*, 17(63), 539-548.

Mahmoud, H. H., Kalaba, M. H., El-Sherbiny, G. M., Mostafa, A. E.,

- Ouf, M. E., & Tawhed, W. M. (2021). Sustainable repairing and improvement of concrete properties using artificial bacterial consortium. *Journal of Sustainable Cement-Based Materials*, 1-14.
- Mostafa, A. E., Ouf, M. S., & Abdel Fatah, H. H. (2017, July). Evaluation of Using Waste Road Construction Materials with Additives in Warm Mix Asphalt. In *International Congress and Exhibition " Sustainable Civil Infrastructures: Innovative Infrastructure Geotechnology"* (pp. 322-334). Springer, Cham.
- Mahmoud, H. H., Mostafa, A. E., Ouf, M. E., Tawhed, W. M., El-Sherbiny, G. M., & Kalaba, M. H. Developing & Verifying Finite Element Models for Concrete Pavement Repair Using Self-Healing Technique. "In Prep."

### Book Chapters

- Hala. H. Mahmoud, (2014), " Executive drawings for structural elements", Projects Management Unit Higher Education Enhancement Project.
- Hala. H. Mahmoud, (2013), " shop drawings for concrete structures", Projects Management Unit Higher Education Enhancement Project.
- Hala. H. Mahmoud, (2009), " Execution of survey works", Ministry of Higher Education (MHE).
- Hala. H. Mahmoud, (2008), " Sanitary engineering works", Ministry of Higher Education (MHE).