

# Mohammed S. Mayhoub

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## PROFILE

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Dr. Mohammed Mayhoub has obtained his PhD degree from the University of Liverpool, UK. He is involved in the environment and process group. His work in architectural lighting focuses on hybrid lighting systems, their efficiency, costs and benefits, influences on buildings and users, potential applications in different buildings and over different geographical locations, potential energy saving, and design methods of innovative daylighting systems. Significant findings have been published in high-reputation journals and conferences.

Dr. Mayhoub gained both academic experience as a lecturer, and professional experience as an architect. Since he received the Bachelor of Architectural Engineering degree with honor (2001) from Al-Azhar University, Cairo, Egypt, he is practicing architecture in multinational engineering consultant firms. Later, 2003, he joined the faculty of engineering, Al-Azhar University as a demonstrator, then upgraded in 2006 after receiving the Master degree to hold the position of associated lecturer. After obtaining his PhD from the University of Liverpool, he hold the position of Lecturer in the department of Architecture. Al-Azhar University.

## EDUCATION

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2007 - 2011	<b>The University of Liverpool</b> Doctor of philosophy ( <i>PhD</i> ). Thesis: Hybrid Lighting Systems, performance, application and evaluation.	Liverpool, UK
2003 - 2006	<b>Al-Azhar University</b> Master of Architecture ( <i>M.Arch</i> ). Thesis: Lighting in office building, an approach to conserve energy.	Cairo, Egypt
1996 - 2001	<b>Al-Azhar University</b> Bachelor of Architectural Engineering ( <i>B.Arch</i> ), with honors. Graduation project ( <i>Grade: Distinction 95%</i> ): Upgrading of Al-Azhar University Campus and Designing of the University's sporting campus.	Cairo, Egypt

## ACADEMIC EXPERIENCE

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2011-Present	<b>Al-Azhar University</b> <i>Lecturer, Architectural department, Faculty of Engineering</i> <ul style="list-style-type: none"><li>Architectural design and working drawing teaching.</li><li>Building construction teaching.</li></ul>	Cairo, Egypt
2007-2011	<b>School of Architecture, University of Liverpool</b> <i>PhD Research student</i> <ul style="list-style-type: none"><li>The research investigating Hybrid Lighting Systems performance and potential application, and carrying out an overall evaluation.</li></ul>	Liverpool, UK
2006-2007	<b>Al-Azhar University</b> <i>Associate lecturer, Architectural department, Faculty of Engineering</i> <ul style="list-style-type: none"><li>Architectural design and working drawing teaching.</li><li>Auto CAD courses demonstrating.</li></ul>	Cairo, Egypt

- 2003-2006 **Al-Azhar University**  
*Demonstrator, Architectural department, Faculty of Engineering*
- Architectural design and working drawing demonstrating.
  - Auto CAD courses demonstrating.

## PROFISSIONAL EXPERIENCE

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- 2006-Present **Ewan for Engineering Consultant** New Cairo, Egypt  
*Co-founder*
- Project manager.
  - Architectural design.
- 2003-2006 **Consultant Engineers EHAF** Cairo, Egypt  
 2001-2002 *Junior Architect*
- Design development.
  - Working drawing.
  - Tender documents preparing.
  - Site technical office.
- 2002-2003 **Military works administration, Authority of Engineering** Cairo, Egypt  
*Junior Architect*
- Design development.
  - Working drawing.

## PUBLICATIONS

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Mayhoub, M.S. and Carter, D.J. (2012). A feasibility study for hybrid lighting systems. *Building and Environment*, 53, 83-94.

Mayhoub, M.S. and Carter, D.J. (2011). Methods to estimate global and diffused luminous efficacies based on satellite data. *Solar Energy*, 85 (11), 2940-2952.

Mayhoub, M.S. and Carter, D.J. (2011). Hybrid lighting systems: performance and design. *Lighting Res. Technol*, DOI: 10.1177/1477153511416324.

Mayhoub, M.S. and Carter, D.J. (2011). Satellite data-based methods to predict global luminous efficacy. In the 5th International Conference Solaris 2011, Brno University of Technology, Czech Republic, 186-193.

Mayhoub, M.S. and Carter, D.J. (2011). A model to estimate diffused luminous efficacy based on satellite data, In the 5th International Conference Solaris 2011, Brno University of Technology, Czech Republic, 194-201.

Mayhoub, M.S. and Carter, D.J. (2011). Evaluation and application of guided daylight systems. In the Proceedings of CIE 2011, Sun City, South Africa.

Mayhoub, M.S. and Carter, D.J. (2011). Decision making in selecting the best matching hybrid lighting system. In the Proceedings of PLEA 2011, Louvain-la-Neuve, Belgium, 831-836.

Mayhoub, M.S. and Carter, D.J. (2011). A model to estimate direct luminous efficacy based on satellite data. *Solar Energy*, 85 (2), 234-248

Mayhoub, M.S. and Carter, D.J. (2011). The costs and benefits of using daylight guidance to light office buildings. *Building and Environment*, 46 (3), 698-710.

Mayhoub, M.S. and Carter, D.J. (2010). Hybrid lighting systems: costs and benefits. In proceeding of Bullight conference, Varna, Bulgaria, V-1-V-6.

Mayhoub, M.S. and Carter, D.J. (2010). Towards hybrid lighting systems: A review. *Lighting Res. Technol*, 42, 51-71.

Mayhoub, M.S. and Carter, D.J. (2010) Um estudo de viabilidade dos sistemas de luminacao hibridos. *Electricidade Moderna*, 38, 418, 58-72

Mayhoub, M.S. and Carter, D.J. (2009). Hybrid lighting systems: A feasibility study for Europe. In proceeding of the 11<sup>th</sup> LuxEuropa, Istanbul, Turkey, 1, 265-72.

## Awards

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2007                      PhD scholarship to Liverpool, UK; awarded by the Egyptian Ministry of Education, Cairo, Egypt.  
2011                      Post-doctoral scholarship to California, US; awarded by California Lighting Technology Centre 'CLTC'.

## SKILLS AND ACTIVITIES

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- Mother language is Arabic, English is very good.
- Professional use of Auto CAD, Word, Excel, Power Point and internet applications.
- Familiar with many image editing, building simulation and utilities software.
- A rowing player for the period from 1993 to 2000, seven national championships.

## REFERENCES

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Dr. David Carter, School of Architecture, the University of Liverpool.  
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