

CURRICULUM VITAE

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Samir El-Omari, Ph. D., P. Eng

3902 Birch Ave.,
Madison, WI 53711

Education

Ph.D.

2008

- Ph.D. in Construction Engineering & Management, Concordia University, Montreal, Canada.

Master of Science in Engineering

1987

- Undergraduate and graduate studies as a civil engineer leading to the *Master of Science in Engineering*, Bauhaus University, Weimar, Germany.

Grants and awards

1. Teaching and research Fulbright award for scholars at the Nile University in Cairo, Egypt (January – August 2024)
 - The Fulbright Scholar Program for academics and professionals awards more than 1,700 fellowships each year, enabling 800 U.S. Scholars to go abroad and 900 Visiting Scholars to come to the United States. As a Fulbright Scholar, you'll make meaningful contributions to communities abroad and at home, as well as in your chosen field. You'll also advance your career by joining a network of accomplished alumni serving as leaders and educators across the globe.
2. UW Platteville Sustainability Award 2023
3. Received together with the National University of Mar del Plata, Argentina the "100,000 Strong of the Americas" awarded by the US Department of State, 2018
 - The 100,000 Strong in the Americas Innovation Fund is the public-private sector collaboration between the U.S. Department of State, U.S. Embassies, Partners of the Americas, corporations, and foundations working together to stimulate new higher education partnerships between the United States and the rest of the Western Hemisphere.
4. Received together with the State University of São Paulo - Guaratinguetá, Brazil the "100,000 strong of the Americas", awarded by the US Department of State 2017
5. Received a grant from The German Academic Exchange Service (DAAD) to lower the costs of students going to Germany in a short summer course developed for summer 2014, 2015, 2016, 2017, 2018, and 2019. The course is about renewable energy and green building design practices in Germany
6. Received a UW-Platteville PACCE/SREF project grant for short study abroad course in Germany, Summer 2014, 2015, 2016, 2017, 2019, 2022
7. Received a UW-Platteville PACCE project grant for short study abroad course in Brazil Spring 2016

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8. Received a UW-Platteville PACCE/SREF project grants for the Green Building Design course project in 2014, 2015, 2016, 2017, 2018, 2019, 2021, 2022, 2023
9. The research work done during the Ph.D. was part of the Canadian NSERC (Natural Sciences and Engineering Research Council of Canada)
10. CRD (Collaborative Research and Development) grant to work during the Ph.D. period in developing the training module of in-house project management software of the Montreal-based company SNC-Lavalin. Duties included leading a group of master students during the development period.
11. The paper titled “Integrating Automated Data Acquisition Technologies for Progress Reporting of Construction Projects” presented at the International Symposium on Automation & Robotics in Construction in 2008 was chosen as one of the best to be published in a special issue of the Journal of Automation in Construction

Teaching Experience

Professor **Aug. 2020 – Present**
University of Wisconsin - Platteville, USA

Associate Professor **Aug. 2014 – Aug. 2020**
University of Wisconsin - Platteville, USA

Assistant Professor **Aug. 2011 – Aug. 2014**
University of Wisconsin - Platteville, USA

Courses:

1. Construction Professional Management
2. Construction Engineering
3. Statics
4. Mechanics of Materials
5. Engineering Economics
6. Introduction to Structural Engineering
7. Engineering Success Skills
8. Foundation Design
9. Green Building Design (**Developed and taught**)
10. Building Energy Management (**Developed and taught**)
11. Construction Estimates and Costs
12. Energy, Environment, and Society
13. Principles of Project Management and Sustainable Development
14. Short study abroad course in Germany on green building and renewable energy.
15. Short study abroad course in Brazil on green building and renewable energy.
16. Sustainability in Engineering Design (Graduate course), **Developed and taught**

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Professor **Spring and Summer 2024**
Nile University, Egypt

Courses:

1. Sustainability & Built Environment
2. Engineering Disciplines: History and Concepts
3. Engineering Drawing

Associate Professor **Summer 2019**
Nile University, Egypt

Courses:

1. Civil Engineering Economics

Associate Professor **Summer 2016**
Birzeit University, Palestine

Courses:

2. Construction Management
3. Green Building Design

Assistant Professor **Aug. 2009 – June 2011**
Missouri Western State University, St. Joseph, Missouri, USA

Courses:

1. Construction Management, **also online teaching**
2. Construction Estimating
3. Statics
4. Construction Planning & Scheduling
5. Financial Aspects of Engineering Projects
6. Construction Methods & Equipment
7. Bituminous, Concrete & Soil

Assistant Professor (Limited-term contract) **Sept. 2008 – June 2009**
Concordia University

Courses:

1. Project Management
2. Construction Processes
3. Project Management for Construction
4. Engineering Management Principles and Economics

Part-time Instructor **Jan. 2005 – May 2007 also summer from 2008 till 2011**
Concordia University

Courses:

1. Engineering Management Principles and Economics
2. Construction Engineering

Working as a Teaching Assistant at the Department of Building, Civil, and Environmental Engineering. (1997 – 2000) for the following courses: Design of Reinforced Concrete

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Structures, Design of Steel Structures, Structural Design, Mechanics of Materials, and Engineering Management Principles and Economics

Volunteer Work

Engineers Without Borders

- Part of a professional team developing guidelines for health facilities' waste management systems in developing countries
- Part of a professional team to design and implement bathrooms for two schools in La Loma and Los Lucas, Guatemala
- Professional Mentor to a students' Project for a water project in Uganda
- Professional Mentor to a students' project to improve drinking water in the city of Tabuga in Ecuador. Traveled with the students in August 2015 and January 2017
- Part of a team that prepared a feasibility study for the UN Relief and Work Agency to improve the sewer system at the Ein Sultan refugee camp in Jericho, Palestine. (2014)

Industrial Experience

Project Management and Sustainability Consultant

Sept. 2019 – Present

Advanced Proactive Solutions Consulting

<https://www.aps-consulting.com/>

Bidding team member

Jan. – March 2019

Kayan Community Builders Academy

Project: Prepare bid with a not-for-profit organization to redevelop and build a Bedouin village in the south Saini peninsula. I planned to include my students at UW-Platteville if the project is won. The activities include studying the socio-economical aspects of the village residents to build a sustainable environment with the possibility of including renewable energy.

Project: Ghargana Bedouin Village in South Saini peninsula

Client: Egyptian Ministry of Environment and the United Nation Development Program

Project Manager

Aug. 2003 - Jan. 2004

EGYDAN (Egyptian Danish joint venture)

Responsibilities include:

- As contractor representative, manage technical and construction teams as well as sub-contractors, monitor cost, time and quality controls, progress reporting, procurement, construction supervision, and inspection. Responsibility also includes heading the tendering team during the bidding process.

Projects:

- Dreamland Holiday Inn hotel in Cairo.

Cost Control Manager

Aug. 2001 – Jan. 2004

EGYDAN (Egyptian Danish joint venture)

Responsibilities include:

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- Preparing cost control reports for the company projects including the implementation of the company cost control system

Projects:

- Dream land Sheraton hotel, Office Park, Choueifat School in Dream Land, renovation works at the Danish embassy in Cairo.

Assistant Site Manager

Feb. 2001 – Aug. 2001

BWSC (as EGYDAN employee)

Responsibilities include:

- Assisting *BWSC* in dealing with the sub-contractor and the project consultant regarding technical submittals, planning the sub-contractor's job and following up the progress.

Project:

- 13 MW Power Plant in Marsa Alam, Red Sea, Egypt

Tendering Engineer

Dec. 2000 – Feb. 2001

EGYDAN

Responsibilities include:

- Preparing tender documents for the project “*Office Complex – Office Park*”. Duties include review of the design drawing for any discrepancies.

Senior Civil Engineer

Head of the Structural Department in Egypt

Oct. 1993 – Sept. 1995

Soares Da Costa Co (Portuguese company)

Responsibilities include:

- Implementing structural shop drawings and binding lists for steel reinforcement after doing the necessary coordination with all departments and participants.

Projects:

- Palma Riva Luxor Hotel. Hurghada Hilton Hotel.

Site Engineer representing the owner.

Oct. 1991 – Oct. 1993

Dar Al-Handasah (Shair & Partners)

Responsibilities include:

- Quality control through following up and supervising the execution of the project activities. Duties included implementing and updating the schedule, cost estimating, and quantity surveying.

Projects:

- Alnoor Hilton Resorts. Hurghada Hilton. Seagull Resorts in Hurghada.

Site Engineer

May 1988 - June 1991

Misr Construction Office.

Responsibilities include:

- Implementing the project schedule, following up, and supervising the execution of the project activities.

Projects:

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- Finishing works for the printing workshop building of the Faculty of Art, Helwan University. Soldiers' accommodation house, mess, and a utility project. Construction renovations in the Army Forces Hospital in Maady.

Site Engineer

Aug. 1987 - May 1988

Nazif Construction Co.

Responsibilities include:

- Implementing the project schedule and following up and supervising the execution of the project activities.

Projects:

- Administration building of the *El-Shams Sporting Club* in Cairo. Foundation, ground floor, first floor for a 17-storey building.

Training

- **2004.** Attended training courses on Project Management Plus (PM+), an in-house software of the company SNC-Lavalin of the company, covering several modules.
- **1998.** Attended a workshop on the application of GIS (Geographical Information Systems) in the fields of environmental and construction engineering. (Canada)
- **1986.** Working at the Design Office of the Faculty of Architecture and Engineering, Bauhaus University, Weimar, Germany.

Computer knowledge

Primavera Project Planner, Microsoft Project Planner, Sage Timberline, AutoCAD, Microstation, PM+, eQuest, Athena, Revit, Bluebeam, BLCC, Microsoft Word, Excel, Access, and knowledge in programming with C++, C# and Visual Basic. 3D modeling software applications PHIDIAS and Polyworks

Languages

- **Arabic:** Mother tongue.
- **English:** Fluent
- **German:** Fluent.
- **French:** Good.

Professional Affiliations

- Professional Engineers Ontario (P. Eng.)
- American Society of Civil Engineers. (ASCE)
- Engineers Without Borders (EWB)
- Construction Research Council (CRC)
- American Society of Engineering Education (ASEE)
- Wisconsin - Association of Energy Engineers (WAE), **former faculty advisor to the student chapter at UW-Platteville**

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- Canadian Society for Civil Engineering. (CSCE)
- The Association for the Advancement of Cost Engineering. (AACE), **former President of Concordia University Section.**

Publications and Presentations

- El-Omari, S. (2026), "Building Energy Modeling and Life Cycle Assessment " 1-day workshop at Nile University, Cairo, Egypt, April 2026
- El-Omari, S. (2025), "3-day workshop on Building Energy Modeling and Life Cycle Assessment." Nile University, Cairo, Egypt, December 2025
- El-Omari, S. (2025), "Sustainable Housing Initiatives: A Path to Energy Efficiency and Environmental Preservation." CEE Engineering Seminars, UW-Platteville, February, 2025
- El-Omari, S. (2024), "Sustainable Housing Initiatives: A Path to Energy Efficiency and Environmental Preservation" XV CLAGTEE - Latin American Congress on Generation, Transmission and Distribution, Mar del Plata, Argentina, November 27 - 29, 2024
- El-Omari, S., Samy, I., (2024) "Eco-friendly Smart Homes", Fulbright Speakers series to the Council of Research Centers and Institutes, Cairo, Egypt, August 7, 2024
- El-Omari, S., (2024) "Sustainability in Engineering Design", Research hour presentation, Nile University, Cairo, Egypt, March 2024
- El-Omari, S., Samy, I. (2024) "Fulbright collaborative work between Nile University and UW-Platteville", 3rd International Conference on "Basic Sciences and Sustainable Development" Qena, Egypt, January 29, 2024
- El-Omari, S. (2022), "Creating Sustainability Programs for the University: A Practical Approach" XIV CLAGTEE - Latin American Congress on Generation, Transmission and Distribution, Rio De Janeiro, Brazil, Nov. 29 – Dec. 1, 2022
- El-Omari, S (2021). "Performing Virtual Building Energy Auditing During Covid-19 Lockdown for Education Purpose", Virtual presentation to the Egyptian Academy of Science, July 7, 2021
- Nahla Hazem, Mohamed Abdelraouf, I.S. Fahim 3, and S. El-Omari (2020). "A Novel Green Rating System for Existing Buildings", Sustainability, 2020, 12, 7143
- El-Omari, S. (2019). "UW – Platteville International Collaboration with Germany, Brazil and Argentina in Renewable Energy and Green Building Practices" XIII CLAGTEE - Latin American Congress on Generation, Transmission and Distribution, Santiago, Chile, October 21 - 24, 2019.
- El-Omari, (2019). "Workshop on Green Building Design" National University of Mar del Plata as part of the 100,000 strong of the Americas Grant, Mar del Plata, Argentina June 4 – 6, 2019
- El-Omari, (2019) "Presenting with students class project works), Conference at National University of Mar del Plata, Argentina, June 5, 2019
- El-Omari, (2019). "Energy Improvement for Community and Campus Buildings; Learn by Practice Approach" Environmental Studies and Research Institute 5th international Conference, Hurgada, Egypt , April 1- 4 , 2019

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- El-Omari, S., Hughes, B. (2018). "Project Management for Engineers Without Borders (EWB) Projects" EWB workshop, Madison, Wisconsin, September 29, 2018..
- El-Omari, S. (2017), "Building Energy Auditing for Education Purposes" XII CLAGTEE - Latin American Congress on Generation, Transmission and Distribution, Mar del Plata, Argentina, November 12 - 15, 2017
- El-Omari, S. (2017), "Students' Design Proposal for the Restoration of University Buildings: A Green Practical Application", III Workshop on Bioenergy, Renewable Energy and Green Building at the State University of São Paulo - Guaratinguetá, Brazil, March 30, 2017
- El-Omari, S. (2016), "Community engagement in Teaching Green Building Design", II Workshop on Bioenergy, Renewable Energy and Green Building at the State University of São Paulo - Guaratinguetá, Brazil, March 17, 2016
- K. Hagen, M. Raynolds, Dr. J. Kelly, Dr. S. El-Omari, (2014) "Engineering Services for Humanitarian Agencies through the EWB-USA Engineering Service Corps", EWB-USA National Conference, November 1-3, 2014.
- El-Omari, S., Moselhi, O., (2011). "Integrating Automated Data Acquisition Technologies for Progress Reporting of Construction Projects" *Automation in Construction* Oct. 2011, Vol. 20 Issue 6, p699-705.
- El-Omari, S., Moselhi, O., (2010). "Database Driven Application for Automated Tracking and Control of Construction Projects", *CSCE Conference, 2010, Winnipeg, Manitoba, Canada*
- Moselhi, O. El-Omari, S., (2009) "Data Acquisition from Construction Sites for Tracking Purposes", *"Engineering, Construction and Architectural Management"*. 16(5)
- El-Omari, S., Moselhi, O., (2008) "Integrating 3D Laser Scanning and Photogrammetry for Progress Measurement of Construction Work.", *Automation in Construction Journal*, 18(1), 1-9
- Moselhi, O., El-Omari, S., (2008) "Database Driven Tracking and Control of Construction Projects.", Paper submitted to *"Journal of Construction Innovation information"*
- El-Omari, S., Moselhi, O., (2008). "Integrating Automated Data Acquisition Technologies for Progress Reporting of Construction Projects" *International Symposium on Automation & Robotics in Construction ISARC -2008 Austin, Texas.*
- El-Omari, S., Moselhi, O., (2007). "Hybrid Methodology for Automated Collection of Data from Construction Sites" *International Symposium on Automation & Robotics in Construction ISARC -2007 Kochi, Kerala, India*
- Moselhi, O., El-Omari, S. (2006). "Integrating Bar Coding and RFID to Automate Data Collection from Construction Sites", *Joint International Conference on Computing and Decision Making in Civil and Building Engineering, ASCE, June 14-16, 2006, Montreal, Canada.*
- Moselhi, O., El-Omari, S. (2005). "Automated Data Acquisition from Construction Sites", *CSCE 6th Construction Specialty Conference, 2005, Toronto, Canada.*
- Moselhi, O., El-Omari, S. (2005). "The Use of 3D Scanners for Automated Progress Reporting on Construction Activities", *AACE 49th International Annual Meeting, 2005, New Orleans, Louisiana.*