

# CURRICULUM VITAE

E-mail: [elomaris@uwplatt.edu](mailto:elomaris@uwplatt.edu)  
<http://www.uwplatt.edu/~elomaris/>

## 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

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

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## Grants and awards

1. 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
2. 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
3. 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, 2019. The course is about renewable energy and green building design practices in Germany
4. Received a UW – Platteville PACCE project grants for short study abroad course in Germany Summer 2014, 2015, 2016, 2017, 2019
5. Received a UW – Platteville PACCE project grants for short study abroad course in Brazil Spring 2016
6. Received a UW – Platteville PACCE project grants for the Green building design course projects 2014, 2015, 2016, 2017, 2018
7. The research work done during the Ph.D. was part of the Canadian NSERC (Natural Sciences and Engineering Research Council of Canada)
8. 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.
9. 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 one of the best to be published in a special issue of the journal of Automation in Construction

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## **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. Green Building Design (**Developed and taught**)
9. Building Energy Management (**Developed and taught**)
10. Construction Estimates and Costs
11. Energy, Environment, and Society
12. Principles of Project Management and Sustainable Development
13. Short study abroad course in Germany on green building and renewable energy.
14. Short study abroad course in Brazil on green building and renewable energy.

**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

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7. Bituminous, Concrete & Soil

**Assistant Professor (Limited term contract)**  
**Concordia University**

**Sept. 2008 – June 2009**

**Courses:**

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

**Part-time Instructor**  
**Concordia University**

**Jan. 2005 – May 2007 also summer from 2008 till 2011**

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

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## **Volunteer Work**

### **Engineers Without Borders**

- Part of professional team developing guidelines for health facilities waste management systems 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 Ein Sultan refugee camp in Jericho, Palestine. (2014)

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## **Industrial Experience**

**Project Management and Sustainability Consultant**  
**Advanced Proactive Solutions Consulting**

**Sept. 2019 – Present**

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

**Bidding team member**

**Jan. – March 2019**

Kayan Community Builders Academy

**Project:** Prepare bid with a non-for-profit organization to redevelop and build a Bedouin village in the south Saini peninsula. My plan to include my students at UW-Platteville if the project is won. The activities include studying the socio-economical aspects of the village

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residents to build a sustainable environment with a possibility of including renewable energy.

**Project:** Ghargana Bedouin Village in South Saini peninsula

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

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## 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:

- Dream land Holiday Inn hotel in Cairo.

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## Cost Control Manager

**Aug. 2001 – Jan. 2004**

*EGYDAN (Egyptian Danish joint venture)*

### Responsibilities include:

- 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.

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## 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

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## 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.

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## Senior Civil Engineer

Head of the structural department in Egypt

**Oct. 1993 – Sept. 1995**

*Soares Da Costa Co (Portuguese company)*

### Responsibilities include:

- Implementing of 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.

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**Site Engineer** representing the owner.  
*Dar Al-Handasah (Shair & Partners)*

**Oct. 1991 – Oct. 1993**

**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.

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**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:**

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

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**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.

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## 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.

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## Computer knowledge

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

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## Languages

*Samir El-Omari*

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

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## 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 (WAEI), **former faculty advisor to the student chapter at UW - Platteville**
- Canadian Society for Civil Engineering. (CSCE)
- The Association for the Advancement of Cost Engineering. (AACE), **former President of Concordia University Section.**

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## Publications and Presentations

- 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, Hurghada, Egypt , April 1- 4 , 2019
- 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

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- 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 6<sup>th</sup> 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 49<sup>th</sup> International Annual Meeting, 2005, New Orleans, Louisiana.*