

MAGED S. GUERGUIS

CURRICULUM VITAE

5520 SOUTH CORNELL AVENUE. 1N, CHICAGO, ILLINOIS 60637 | TEL: 812.259.4292 | MAGED.GUERGUIS@SOM.COM

EDUCATION

May 2013
Chicago, IL

Masters of Architecture (Advanced Standing)

University of Illinois at Chicago
School of Architecture

August 2001
Cairo, Egypt

Bachelor of Architecture (Five-Year Professional degree)

Helwan University
School of Fine Arts

PROFESSIONAL EXPERIENCE

November 2013 - Present
Chicago, IL

Skidmore Owings & Merrill LLP

Senior Designer

Duties, Accomplishments and Related Skills:

- Prepared conceptual, schematic design, diagrams, design development, construction documents and execute distinct portions of projects under periodic oversight of associate director or partner.
- Sought creative and innovative solutions to assigned tasks and developed research and documentation to execute these solutions.
- Led the detailed preparation of design documents and contributed to the preparation of construction documents during all project phases.
- Collaborated with and coordinated work of consultants to ensure that project deliverable are coordinated.
- Assisted with checking and coordinating project documents including drawing set organization, details, dimensions, interdisciplinary coordination.

Selected Projects:

- Lujiazui World Trade Center Urban Design (Shanghai, China)
- 447 Collins (Melbourne, Australia)
- Greenland Zhengzhou Expo City (Zhengzhou, China)
- Pazhou Star River Headquarters (Pazhou, China)
- Ayala Triangle Gardens (Makati, Philippine)
- Sanlin Riverfront Eco-District (Shanghai, China)
- China World Trade Center (Beijing, China)
- AMIE 1.0 (Knoxville, TN)
- Mount Street Tower (Sidney, Australia)
- Guangzhou Chamber of Commerce Tower (Guangzhou, China)
- Downtown Fargo Block 9 (Fargo, ND)

August 2013 - Present
Chicago, IL

SOM Foundation

Design Research Fellow

Selected as the recipient of the prestigious 2013 SOM Research and Travel Fellowship, a \$20,000 award to travel to scientific research institutions in Europe and North America, to carry out the research topic, "Soft Boundaries: The Emergence of Material Energies". A trans-disciplinary research investigating areas where architectural design overlaps with other sciences, such as Biology, Biochemistry, Particle physics, Discrete Mathematics and Differential Geometry.

August 2015 – Present
Knoxville, TN

Governor's Chair Energy + Urbanism

Partnership with Oak Ridge National Labs (ORNL) and University of Tennessee

Interdisciplinary research for both design and execution of experimental building envelope to be the first 3D printed energy-efficient structure using additive manufacturing. Funded by the Department of Energy, the research goal is to use cutting-edge technology in both design and fabrication, such as advanced algorithmic modeling and rapid prototyping in residential housing applications to find optimal and innovative solutions for energy independence.

May 2013 - October 2013
Evanston, IL

Morgante Wilson Architects Ltd.

Project Manager

Duties, Accomplishments and Related Skills:

- Prepared and reviewed construction documents and contracts.
- Coordinated Electrical, plumbing and structural drawings.
- Prepared budget, cost estimate and calculation spreadsheets for materials and finishes.

Selected Projects:

- Halbower Residence (Wilmette, IL)
- Blazo Residence (Evansville, IN)
- Ricketts Residence (Chicago, IL)

April 2003 - September 2010
Abu Dhabi, UAE

Architectural & Engineering Consultants

Architect

Duties, Accomplishments and Related Skills:

Assisted in developing architectural drawings, schematic design, construction documents, and computer renderings of a wide range of projects.

Selected Projects:

- Danet Abu Dhabi Development (Abu Dhabi, UAE)
- Diwan for Sheikh Bin Zayed (Abu Dhabi, UAE)
- Holiday Inn Hotel (Abu Dhabi, UAE)
- Ice Hockey Arena (Minsk, Belarus)

September 2001 - March 2003
Cairo, Egypt

Dar Al-Handasah | Dar Group

Jr. Designer

- Assisted Architects in the preparation of architectural drawings.
- Prepared 2D and 3D presentation, models and renderings.

Selected Projects:

- Dubai International Airport Terminal 2 (Dubai, UAE)
- Adapazari Hospital (Adapazari, Turkey)
- Abraj Al Bait (Mecca, Saudi Arabia)
- Housing Bank (Amman, Jordan)

TEACHING EXPERIENCE

August 2015 – Present

University of Tennessee College of Architecture and Design

Professor of Practice

As a part of The Governor's Chair Integrated Design Studio

February 2015

Iowa State University College of Design

Invited Speaker

Lecture Topic:

- Soft Boundaries: The Emergence of Material Energies

September 2013

University of Illinois at Chicago School of Architecture

Visiting Lecturer

Lecture series topic:

- Generative Algorithms and Mathematical Associative Modeling

HONORS & AWARDS

2016 Emerald Awards

United States Green Building Council – Illinois Chapter (USGBC-Illinois)

The Additive Manufacturing Integrated Energy (AMIE 1.0)

2016 Architizer A+ Awards

The Additive Manufacturing Integrated Energy (AMIE 1.0)

Fast Company's 2016 Innovation by Design (IBD) Award

The Additive Manufacturing Integrated Energy (AMIE 1.0)

2013 SOM Foundation

Recipient of the SOM Foundation's Travel & Research Fellowship

2013 Board of Trustees Full Tuition Waiver

UIC School of Architecture & The Art
For Excellence in Academic Achievements

2013 Alumni Choice Award

Design Portfolio Award (First Place)

2013 The Image of Research Award

UIC Graduate College (Honorable Mention)

2012 Student Choice Award

Design Portfolio Award (First Place)

2012 College Benefit Scholarship

For Exceptional Academic Achievements

2003 Museum Design Competition

Abd El Wahab Museum Design Competition (First Place)
Design Team: Hamdy El Setohy and Shady Albert

2002 Society of Egyptian Architects Award

For Excellence in Architectural Design (Thesis Project)

EXHIBITIONS

October 2015

BOLD: Alternative Scenarios for Chicago**The Chicago Architecture Biennial**

SOM collaboration with CAMESgibson

October 2015

Second Sun**The Chicago Architecture Biennial**

In Collaboration with Sean Lally (*WEATHERS LLC*)

February 2013

Proof 001**Chicago Museum of Contemporary Art**

Installation proposal with Sean Lally (*WEATHERS LLC*)

April 2014 - January 2015

Energy Fields**Art Institute of Chicago**

Installation as a part of 'Chicagoisms' exhibition
With Sean Lally (*WEATHERS*)

PUBLICATIONS**Additive Manufacturing Integrated Energy - Enabling Innovative Solutions for Buildings of The Future****Journal of Solar Energy Engineering 2017 by ASME**

Kaushik Biswas, James Rose, Leif Eikevik, Maged Guerguis, Philip Enquist, Brian Lee, Lonnie Love, Johny Green and Roderick Jackson

J. Sol. Energy Eng 139(1), 015001 (Nov 10, 2016) (10 pages)

Paper No: SOL-16-1196; doi: 10.1115/1.4034980

Big Area Additive Manufacturing Applied To Buildings Buildings XIII Conference

Kaushik Biswas, Randall Lind, Brian Post, Roderick Jackson, Lonnie Love, Johny Green Jr., Lucas Tryggestad, Andrew Obendorf, Leif Eikevik, Maged Guerguis

Interdisciplinary Education in Architectural Design, Building Engineering And Technology National Science Foundation

Enhancing Interdisciplinary Education and Diversity in Education

Algorithmic Design for 3D printing at Building Scale (Submitted)
International Journal of Modern Research in Engineering and Technology (IJMRET)
Maged Guerguis, Leif Eikevik, Andrew Obendorf, Lucas Tryggestad,
Philip Enquist, Brian Lee, Benton Johnson, Brian Post, Kaushik Biswas

PRESENTATIONS

November 2015

The State of 3D Printing
Northwestern University

November 2015

The Role of Integrated Energy and Additive Manufacturing in Our Energy Future
Facades+ Chicago, IL

October 2015

Architect as Analyst
Field Notes Chicago, IL

April 2015

The Realities of 3D Printing
Builtworlds

ACADEMIC SERVICE

July 2014

UIC Accreditation Advisory Board Member
AIA Chicago, NCARB

February 2015

Invited Critic
Iowa State University College of Design

February 2015

SOM Career Fair Representative
University of Tennessee Knoxville College of Architecture and Design
Iowa State University College of Design

March 2015

PhD Thesis Committee Member
Cornell University Department Mechanical & Aerospace Engineering
Thesis Topic:
• Urban Wind: Impact of Building Geometry on Wind Energy Yield Potential

January 2014

Invited Portfolio Day Juror
University of Illinois at Chicago School of Architecture

SOFTWARE SKILLS

Autodesk
AutoCAD | Revit (Architecture + Structure) | 3D Studio Max | Maya

Adobe
Photoshop | After Effects | Illustrator | InDesign

McNeel
Rhinoceros | Grasshopper | Firefly | Paneling Tools | Evolute | RhinoCAM

Mathematical Computation
Wolfram | Mathematica

Electronic Prototyping
Arduino

Renderers
Vray | Maxwell | Octane | Lightscape

MODELING SKILLS

3D Printing | Additive Manufacturing | Laser cutting | CNC Milling

**CONFERENCES/
WORKSHOPS**

ACADIA 2010 Conference New York, NY

Workshop: Advanced Parametric Modeling with Revit Architecture.

**LICENSES / PROFESSIONAL
ACCREDITATIONS**

Egyptian Syndicate of Engineers

Licensed Architect #16/4027 Cairo, Egypt

LANGUAGE SKILLS

English and Arabic (bilingual), French (A2)