

education

Carnegie Mellon University [Pittsburgh, Pennsylvania]

Ph.D. in Building Performance and Diagnostics, School of Architecture | December 2021 (expected)

Dissertation: *“Safe and Healthy Schools - Synergistic Design Actions in Improving School Buildings for the Whole Child.”*

Carnegie Mellon University [Pittsburgh, Pennsylvania]

Master of Science in Sustainable Design, School of Architecture | August 2013

Thesis: *“Moving Away from a Bunker Mentality: Shifting target hardening dollars to school qualities that really matter to student health and safety.”*

Illinois Institute of Technology [Chicago, Illinois & Paris, France]

Bachelor of Architecture with Honors, College of Architecture | December 2006

registrations / accreditations

Registered Architect, State of Illinois | October 2015

LEED Accredited Professional Building Design + Construction | June 2007

Abu Dhabi Urban Planning Council, Estidama, Pearl Qualified Professional | May 2011

experience

Carnegie Mellon University [Pittsburgh, Pennsylvania]

Pre-College Studio Coordinator | Summer 2021

- Supervised team of Studio Instructors and Teaching Assistants to virtually deliver summer studio to high school participants.
- Created course content, term schedule, project briefs and lectures for synchronous virtual delivery.

Carnegie Mellon University [Pittsburgh, Pennsylvania]

Studio Instructor | January 2015 - Present

- Studio Instructor for first year undergraduate architectural students.
- Responsible for desk critiques, section lectures, and leading discussions three days a week in both virtual and in-person modalities.

Chatham University [Pittsburgh, Pennsylvania]

Studio Instructor | January 2020 - Present

- Studio Instructor for second year undergraduate architectural students.
- Responsible for course content creation, lecturing, desk critiques, and leading discussions for multi-family housing typology.

Bostwick Design Partnership [Pittsburgh, Pennsylvania]

Architect | May 2017 - April 2018, September 2019 - December 2020

- Responsible for design development, construction documents, and construction administration for semi-private university student financial services and financial aid office renovation.
- Project Architect for military post rehabilitation project that included renovations of three existing buildings, design and construction of one new building, and site renovations using LEAN principles for interdisciplinary project team management as a LEAN Construction Pilot Project for the Pennsylvania Department of General Services.
- Created and administered ongoing team survey for project duration to track effectiveness of Cluster Group project organization within LEAN project delivery.
- Collaborated with fellow researchers to develop firm-wide evidence-based design strategy.

Carnegie Mellon University [Pittsburgh, Pennsylvania]

Advanced Synthesis Option Studio - Studio Instructor | January 2019 – May 2019

- Studio Instructor for fourth and fifth year undergraduate and second year graduate architectural students.
- Responsible for course development including syllabus, assignments, and scheduling for a semester-long research and design driven studio that explored the role of the built environment around motherhood and family structures in Pittsburgh, Pennsylvania.
- Responsible for desk critiques, section lectures, and leading discussions three days a week.

Carnegie Mellon University [Pittsburgh, Pennsylvania]

Research Assistant | January 2013 – December 2014

- Evaluated audit reports and helped design and populate a database for analysis of energy consumption data from Pennsylvania Housing Finance Agency multi-family residential weatherization and energy efficiency upgrade project.
- Completed Revit model and drawings for the design and engineering of the Teaching Operational Performance Laboratory at the Energy Innovation Center.

GHAFARI Associates [Chicago, Illinois]

Architect II | November 2008 – June 2012

- Pearl Qualified Professional for a 100,000 SF Bus Gate Building at the Abu Dhabi Airport, working on-site with airport officials through project milestones.
- Completed Estidama coordination and documentation for Abu Dhabi Airport Bus Gate Building, achieving a Two Pearl design certification.
- Completed LEED feasibility studies and environmental analysis for a variety of projects.
- Performed existing construction analysis, using laser-scanning technologies in tandem with record drawings to create an as-built building information model of a historic landmark site for construction documents.
- Completed design documents and sustainability coordination for new United Cargo building at O'Hare International Airport.

Illinois Institute of Technology [Chicago, Illinois]

Assistant to Adjunct Faculty | January 2007 – May 2009

- Paired with Instructor Sander Kaplan to team teach in the second year undergraduate program; curriculum included intensive study in masonry and timber construction methods.
- Responsible for desk critiques, section lectures, and leading discussions one studio day a week.
- Performed one hour-long lecture to full studio each semester; lectures have included topics in masonry, roofing systems, timber structural calculations, and the LEED rating system.

SKJN Architekten Corporation [Riverside, Illinois]

Junior Architect | June 2006 – October 2008

- Created design drawings and construction documents.
- Performed site and zoning studies for developers.
- Consulted clients and developers during design development and construction administration phases.
- Performed existing construction analysis, including building measurement, verification and documentation.

Arthur S. Takeuchi Materials Library at IIT [Chicago, Illinois]

Coordinator | Winter 2008 – Summer 2008

- Created design documents for library space.
- Assisted in material acquisition for reference materials.
- Implemented cataloging system for materials to be organized for storage and circulation.

software/ languages

Revit, AutoCad
Sketchup
Adobe Creative Suite
Microsoft Office Suite

Various Energy Analysis Programs (Green Building Studio, etc.)
Various Project Sharing Platforms (Miro, Sharepoint, etc.)
Various Critical Path & Project Management Tools (VPO, MS Planner, etc.)
Various Survey Design and Administration Tools

conferences / exhibitions / lectures

Conferences

- AASHE 2015 Conference and Expo: Transforming Sustainability in Education – “Bridging the Gap: Building High Performing K-12 Schools That Ready Students for Sustainability in Higher Education” presented with Dr. Erica Cochran | October 2015

Exhibits

- Museum of Science and Industry, Smart Home Exhibit – member of team responsible for design and construction of site bench seating, Summer – Winter 2008
- IIT College of Architecture Open House, 2001-2006
- Lost and Found Productions – built model of Mies van der Rohe’s Farnsworth House for the play “The Glass House” performed at The Art Institute of Chicago, Arts Club of Chicago, and Farnsworth House, Spring 2003

Lectures

- “Safe and Healthy Schools”, Case Studies in Architecture and Cities, CMU School of Architecture, September 2016, October 2017
- “Introduction to LEED and Green Rating Systems”, Intro to the Profession, IIT College of Architecture | September 2010 & 2011

committees / contributions

Committees

- Carnegie Mellon University Campus Design Review Committee (2016-2018)
- CMU Architect Selection Committee – ANSYS Building (2016)
- CMU Graduate Student Assembly – School of Architecture Representative (2015-2017)
- CMU School of Architecture Graduate Exchange Lecture Committee (Chair, 2016 - 2017)

Contributor

- O’Hare Modernization Program Sustainable Airport Manual v2.1 (November 2011)
- Moving Design. Call to Action: An Intervention on Bike Safety | Summer 2011

awards / honors

Scholarships

- Akram Midani Graduate Fellowship Fund (2013)
- IIT Leadership Academy Scholarship (2004-2006)
- AIA/ NEI Scholarship (2005)
- Elizabeth Spies Droste Travel Scholarship (2005)
- IIT Heald Scholarship (2001-2004)

Competitions

- IIT Urban Green Design Build Studio – Design of single family affordable green home selected for studio design development and construction | Spring 2006
- International Masonry Institute Masonry Camp Attendee, selected from 2nd Year Studio by IMI representatives based on masonry knowledge and studio work | Summer 2003

Jury Member

- Carnegie Mellon University Undergraduate Third Year Studio, Early Education Project | 2018, 2019, 2021
- Thomas Jefferson University Third Year Studio, End of Life Center | Spring 2021
- Carnegie Mellon University B.Arch Thesis Reviews | 2019, 2020
- University of Pittsburgh Studio 3, Collaborative Housing Project | 2017
- 19th Biennial AIA Eastern Illinois Chapter Distinguished Building Awards | 2016
- Carnegie Mellon University Comprehensive Studio, “The STEAMbox Studio” | Spring 2015
- Illinois Institute of Technology Graduate Program Three Second Year Studio | Spring 2011
- Illinois Institute of Technology Undergraduate First Year Studio, House Project | Spring 2011