

EDUCATION

University of Oregon

Master of Science in Architecture *anticipated 2015*

Research focused post-professional degree program.

Electric Lighting Use in Daylit Office Environments, (Thesis, in progress).

Bachelor of Architecture *June 2011*

Professional NAAB architectural design program.

High performance design and time-based building for midrise multifamily housing, (Terminal project for the Salem Housing Authority in concert with the Sustainable Cities Initiative).

Art History Minor

Art and architectural history minor including contemporary architectural theory.

Political Science Minor

Historical, civics-based curriculum including general surveys of political theory and detailed case studies of periods of social change in the 19th and 20th century American political landscape.

PROFESSIONAL EXPERIENCE

School of Architecture & Allied Arts, University of Oregon

Graduate Research + Teaching Fellow *since 2013*

ARCH 4/571 – Building Enclosures, technical teaching of best practices building enclosure design and detailed construction drawings. Responsible for teaching 45 undergraduate and graduate students in a discussion and demonstration based format.

ARCH 4/592 – Environmental Control Systems II, technical teaching of environmental control topics including daylight, electric lighting, acoustics, waste and water. Responsible for teaching 45 undergraduate and graduate students in a discussion and demonstration based format.

DAYLIGHTING AALTO - Experimental simulation of daylighting systems of Helsinki University of Technology Main Library by Alvar Aalto using IESVE/Radiance.

High Performance Environments Laboratory (HiPE), University of Oregon

Research Assistant *since 2011*

Assisted in the implementation and operation of full-scale facade testing and analysis facility monitoring IEQ impacts, energy performance, and occupant behavior; included installation, documentation, and creation of operations manual for integrated environmental sensor system, construction documentation, and marketing/outreach materials.

Performed post-occupancy evaluations and conducted comprehensive analysis of LEED certified schools and LEED Platinum research laboratories in Pacific Northwest; analyzed classroom and laboratory design for daylight, glare, acoustics, thermal comfort, and energy use optimization.

Conducted IEQ retrofit assessment for numerous privately and publicly owned buildings, evaluating de-

sign and operations impacts on daylighting, illuminance distribution, thermal comfort, building enclosure performance, energy consumption, and occupant satisfaction and productivity.

Undergraduate Research Assistant *June 2010 - July 2011*

Developed comprehensive qualitative and quantitative database of LEED certified public schools in Oregon. Analyzed relationship between neighborhood, land-use, and transportation patterns and LEED Sustainable Sites credits. Conducted field assessments of LEED and non-LEED classrooms indoor environmental quality.

HECHO Design

Owner & Designer *since 2012*

Provided design services for residential clients within Eugene-Springfield area. Focused on maximizing latent value of existing structure through adaptive re-use/retrofit while minimizing environmental footprint of new construction and reducing operational energy and expenses.

Designed and fabricated custom furniture and prototypical low-impact energy solutions for urban living.

Sustainable Cities Initiative, University of Oregon

Report Writer *June 2011 - September 2011*

Prepared comprehensive report of design proposals and recommendations for the Salem Housing Authority regarding high-performance public housing in the Northwest, including specific goals and proposals for three publicly-owned housing sites throughout Salem to increase density and livability and provide a benchmark for future public housing developments.

THINKERSMITH

Design Consultant *April 2011 - June 2011*

Provided research, pre-design, visioning, and programming services to new, local, non-profit organization for Eugene headquarters. Focused on aligning design, sustainability, and occupant empowerment with organizational mission. Established design goals through weekly collaborative meetings with Thinkersmith's founder and partners.

School of Journalism and Communication, University of Oregon

Computer Help Desk Assistant *September 2010 - June 2011*

Assisted students and faculty with the use of classroom technology and software including web publishing, graphic design, video and sound editing, and desktop publishing.

Provided alternative design schemes for the IT office during the design phase of the Allen Hall remodel, accommodated spatial needs, improved indoor environment, and optimized existing scheme for interface between IT office staff, students, and faculty.

O'Neil Construction Co. of IL, Inc.

Carpenter & General Tradesman *June 2002 - September 2007*

Provided construction services encompassing all phases of construction in residential and commercial renovations. Specialized in finish carpentry and custom wood fabrication for interior elements.

Assisted general contractor with bid packages for sub-contractors, coordinated work on-site, and interacting with clients, sub-contractors, vendors, and general contractor daily.

PUBLICATIONS

Elzeyadi, Ihab and O'Neil, Shane; *"A Tale of Two Atriums: A Comparative Field Assessment of Daylighting and Thermal Performance of Atria with Different Geometries"* Passive and Low Energy Architectures (PLEA) 2014 Conference Proceedings, December 2014, Ahmedabad, India.

Elzeyadi, Ihab and O'Neil, Shane; *"Right Light: A Comparative Field Assessment of Daylighting Quality and Visual Comfort inside LEED-rated Elementary Schools,"* American Solar Energy Society SOLAR 2013 conference proceedings, Baltimore, MD. In press.

O'Neil, Shane and Keyes, Peter; *"High Performance, High Density, High Ambitions: Housing for the Salem Housing Authority,"* Sustainable Cities Initiative, Eugene, OR (September 2011) <https://scholarsbank.uoregon.edu/xmlui/bitstream/handle/1794/11675/SCY-Salem-High-Performance-Housing-report-2011.pdf?sequence=1>

PARTICIPATION IN FUNDED RESEARCH

since December 2012 Performance + Environmental Assessment and Re-Engagement of LEED Laboratories (PEARLL): Lewis Integrative Science Building, Researcher; funded by UO Campus Operations.

April - October 2012 Slatington, PA IEQ Retrofit Assessment, Researcher; funded by CertainTEED.

December 2010 - December 2012 Facade Integrated Technologies (FIT) Testing Facility, Researcher & Technician; funded by Oregon Built Environments Sustainable Technologies (Oregon BEST), University of Oregon.

June 2010 - August 2013 Green Classroom Toolbox (GCT), Researcher; funded by American Institute of Architects (AIA), University of Oregon, MulvanneyG2.

June 2010 - October 2012 Benchmark and Performance Evaluation of LEED Schools (BELS), Researcher; funded by Oregon Transportation Research and Education Consortium (OTREC).

July - September 2010 E3 SolarAwning, Research Assistant; funded by Oregon BEST, 2009.

January - September 2011 Sustainable Cities Year Project (SCYP): Salem, OR, Student Designer & Report Writer; funded by City of Salem.