

Mehdi Zahed, Licenced Architect AAA, MRAIC,
Ph.D. candidate, M.Arch Eng., B. Arch,
Curriculum Vitae
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EDUCATION

- Sep 2016 - 2021** University of Calgary, Calgary, Alberta
Dissertation title: Improving sustainable architectural design process using a BIM-based life cycle assessment (LCA)
- **Ph.D. in Environmental Design (Ongoing)**
- Jan 2007- March 2007** University of Waterloo, Cambridge, Ontario
- Architectural Professional Practice and Financial Aspects - 3 credit course
- 1985-1993** University of Science and Technology, Tehran, Iran
- **Master's Degree in Architectural Engineering**
- Note:** My university degree accredited by the Canadian Architectural Certification Board (CACB), 2003
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Certificates

- 2019** Northern Alberta Institute of Technology, NAIT
6-Week Best Practices in eLearning Facilitation to create and maintain an online learning community, use and implement strategies to engage learners in the course. The outcomes for the course were, evaluate elearning facilitation skills, demonstrate strategies to engage and support the online learner, participation in discussion forums, Wikik contribution, synchronous facilitation, discussion moderating.
- 2018** Northern Alberta Institute of Technology, NAIT
2-day CPR and First Aid, for faculty part of NAIT's health and safety standards and requirement
- 2014** Northern Alberta Institute of Technology, NAIT
6-day CPHD, Passive House Design
- Full scholarship awarded in collaboration with the City of Edmonton and NAIT
 - <http://www.passivehouse.ca/professional-certification/>
- 2014** Marmomacc Stone Academy, Vitoria, Brazil
1-week Course on design with natural stone

- Full scholarship awarded in collaboration with RAIC and NAIT
- http://www.raic.org/notices/courses/2013/Brazil_Promotional_Info_for_RAIC.pdf

2011 - 2012

Northern Alberta Institute of Technology, NAIT

Finished both “Become a Master Instructor (BMI)” and got a certificate for stage I and stage II

Note: These two courses are mandatory for all full-time NAIT instructors,

<http://www.nait.ca/39248.htm>

2002-2004

The City College, George Brown Campus, Toronto, ON

- The House Structure and Building Envelope (Part 9, OBC)
- The House Health and Safety (Part 3, OBC)
- BCIN holder under the number 39025 – Ontario Ministry of Municipal Affairs and Housing (MMAH)

HIGHLIGHTS OF QUALIFICATIONS

- Experienced Architect worked on various types of building with different occupancies such as; International Airport Terminal, Commercial, Institutional & Residential in many different sizes and climate zones. I worked in all construction stages from planning to completion with a focus on Sustainable Architectural Design, Structural Systems, Building Science & Envelop, Net Zero Buildings, Life Cycle Assessment, Industrial Ecology, Building Materials and Methods, and Construction Project Management
- In-depth knowledge of adult learning and pedagogy, teaching methods, authentic assessment, lecturing and presentation, communication, feedback mechanism and statistics, academic collaboration and educational management
- Experienced coach and supervisor to perform scientific research at Masters and Bachelors levels, academic experience in supervising MSc and BSc thesis on applied research
- Expert on Net Zero Building Design (NZBD) and Sustainable Developments, familiar with most North American applications and rating systems, Life Cycle Assessment, Athena Impact Estimator, and Tally
- Hands-on experience with software such as; AutoCAD, Revit, Navisworks, and SketchUp to produce design and working drawings plus 3D models among various stage of the design process
- Familiar with energy simulation software such as Open Studio and Energy Plus

- Proven industrial involvement with construction project management, administration, correspondence, minutes of meetings, construction site review and write a technical report
- In-depth knowledge of building structure, methods and construction technology
- Hands-on experience with National Building Code, Ontario Building Code, and Alberta Building Code in different architectural and engineering disciplines
- Excellent technical report writing skill, professional photography capability and experience on construction research and forensic investigations
- Committed to high-quality service, reliable, energetic, organized, analytical, diligent, flexible, and goal-oriented individual with cross-cultural team spirit, creative with strong problem solving and critical thinking skills

PROFESSIONAL EXPERIENCE

Aug. 2014 to Present

Architectural Technology Program

Instructor – Northern Alberta Institute of Technology

NAIT, Edmonton, AB

- In charge of the following courses during the past five years:
 - Technical Drawing Interpretation,
 - Small Buildings & Alberta Building Code,
 - Building Science, Building Envelope, Introduction to construction and energy efficiency, Net Zero Design, LEED and preliminary energy modelling to measure building energy consumption
 - Construction and Working Drawing for Commercial Buildings,
 - Sustainable Architectural Design Studio, Net-Zero ready Buildings,
 - Concrete Construction Document I and II,
 - Building Technology I – Steel and masonry construction,
 - Building Technology II – Concrete Construction,
 - Computer Applications I, II, and III, Revit, and AutoCAD
 - Building Information Modeling (BIM), All level of details (LOD) for design and construction stages
 - Professional Communications II: Specifications
 - Building Technologies I, Structural and Building Systems, Mechanical (HVAC)
- Edit curriculums and develop course contents and materials for each topic, as we teach in a weekly base meeting in a team format, work with my department colleagues

- NAIT Architectural Program, Member of Research Committee to search, monitor and define scholarly activities in our department and facilitate logistics for colleagues during such events using different tools for research such as; conference alert, research gate
- Alberta Association of Architects (AAA), Member of Advisory Committee For 2015 Edmonton Buildex
- Member of Royal Architectural Institute of Canada (RAIC)
- Chair for Skills Alberta and coordinate all competitions across the province
- Skills Canada, Post-Secondary Architectural representative for Alberta
- Student liaison, house and industry night one on one interview and problem-solving Technology competition, participate in meetings and organize logistics
- Contact industry, for collaborations, students visit and negotiate grants and scholarships
- CSC Edmonton Chapter, coordinate class presentation and organize students competition
- Canada Wood Council Edmonton Chapter, Representative for NAIT Architectural Program, Promote sustainability and organize students competition
- CAGBC Edmonton Chapter, Representative for Architectural Program, Promote sustainability, coordinate students activities, movie screening and students round table
- , coaching, motivating, tutoring
- NAIT Architectural Program, Member of numerous volunteer activities such as leading orientation sessions and students tours, in charge of open

Aug. 2017 to Present

Bachelor of Technology in Construction Management (BTCM)

Instructor – Northern Alberta Institute of Technology

NAIT, Edmonton, AB

- Designed and taught:
 - **Building Information Modeling (BIM) Applications,**
 - Prepare BTCM students to take BIM responsibilities in the sector as the construction managers including
 - Building simple commercial models with the intent of data extraction used in construction management
 - Quantity takeoff (Revit and Navisworks)
 - Clash detection (Navisworks)
 - Timeline based on the given construction schedule (Navisworks)

August 2011 – August 2014

Construction Engineering Technology Program

Instructor – Northern Alberta Institute of Technology

NAIT, Edmonton, AB

- Taught courses including:
 - Technical Drawing Interpretation,
 - Small Buildings, Alberta Building Code,
 - Building Science, Building Envelope, Introduction to Net Zero and LEED,

- Construction and Architectural Design, Commercial Buildings,
- Nominated for NAIT Instructional Excellent Award, 2013-2014 school year
- Designed curriculum, in-class activities and developed lectures
- Collaborated with department colleagues in curriculum review and outside school presentations
- Produced new, and update old course materials refer to program's outcomes
- Student liaison, one on one review and problem solving, coaching and tutoring
- Participated in Mapping sessions for new degree programs coming to the institution
- Participated in department meetings, student interview committee, team teaching, and peer reviews
- Responsible for staff mentoring, student resume and job interview coaching, consulting on job hunting strategies
- In charged of numerous volunteering activities such as leading orientation sessions, site visits, students tours, NAIT open house and Industry night organizing
- Active instructor for night courses in continuing education gold seal CCA

Aug. 2013 to Present, Principal / Architect

Zahed Architect, Edmonton, AB

- Offer full Architectural services and consultation including design, development, contract management, and administration, field review, shop-drawings and submittals for limited and selected relatively small projects
- Negotiate projects with the city and authorities having jurisdiction such as large institutional, commercial and residential site/buildings within the greater Edmonton area
- Design seminars, include one-day courses and short professional development and provide consultation to local construction companies and developing communities

Aug. 2009 – Mar. 2011, Intern Architect (Project Manager),

Scott Associates Architects, Toronto, ON

- Performed contract administration and project coordination include;
 - Received all Request For Information (RFIs) from the contractor, log and keep track of each RFI, communicate with consultants and related authorities to collect information and produce a complete package of information and issue the Site Instructions (SIs) in "porter" Airline project, New Terminal located at Toronto City Centre Airport
- Received all shop drawings, log, review and distribute base on each division and create transmittal for consultants, follow-up and issue it back to the general contractor for production
- Designed and modified architectural drawings and sketches related to each request for information and wrote the descriptive narrative on standard format and correspondence at each stage to relate and expand into contractual documentation
- Organized construction site visit and made illustrated technical report regularly and keep track of the project weekly
- Participated in construction meetings, to address any work-related tasks and created the report and did a follow-up to obtain the complete result in the shortest possible time

Mar. 2007 - Sep. 2009, Intern Architect (Project Manager),
Petroff Partnership Architects, Toronto, ON

- Prepared architectural drawing, working drawings, tender drawings, and permit set
- Communicated and coordinated with consultants and updated latest version of drawings
- Performed as a project administrator and responsible to communicate and correspond with the Client representative, Site coordinator, General Contractor, and local authorities
- Prepared tenant drawing and coordinated with all consultants and general contractor
- Filed systematically in both digital and hard copy to keep a clear track of correspondence and design history in a different stage of each project
- Managed and coordinated staff

Jul. 2006 – Feb. 2007, Intern Architect (Project Coordinator),
David Johnston Architect, Ltd., Toronto, ON

- Prepared and coordinated architectural, site servicing, structural, mechanical, and electrical drawings for commercial and residential projects, during applications and approvals
- Wrote and prepared professional technical reports for architects and site reviews
- Designed architectural set for Motel 6, Residential/Retirement complexes, Custom Homes, street Plaza, Conference center at Trent University and many numbers of residential developments
- Prepared bid package and supervised and review a different kind of shop drawings to issue to General Contractor and building suppliers

Aug. 2005 – Jul. 2006, Instructor,

Thompson Rivers University, Kamloops, BC, School of Advanced Technologies and Mathematics Engineering Design & Drafting Technology (EDDT) Program

- Prepared course outlines, designed courses and provided professional instructor/advisor
- Participated in faculty meetings and prepared all required documentation
- Scheduled and designed assignments, quizzes, exams and evaluations based on the university calendar
- Communicated with the industry to update the courses and possible career opportunities
- Kept track of student performances and provided tutoring for those who needed more help

Jan. 2004 – Jul. 2005, Intern Architect, David Johnston Architect, Ltd., Toronto, ON

- Prepared and coordinated architectural, site servicing, structural, mechanical, and electrical drawings for commercial and residential project building permits, applications and approvals
- Verified and researched specifications of building materials and providers construction details
- Analyzed technical documents and reports and reviewed and/or estimated costs of materials
- Liaised with clients, consultants, contractors and city officials during construction stages
- Prepared as-built drawings and existing condition for renovations and re-designing projects
- Coordinated architectural projects with structural, mechanical and electrical engineers
- Constructed display models and rendered residential, commercial and office building drawings

2002-2004, Architectural Designer, Project and Construction Coordinator, Harmony Construction Inc. (New Home Builder), Toronto, ON

- Prepared Building permits application drawing set for custom build houses and detail drawings
- Negotiate and make the contract with contractors and sub-contractors in a variety of disciplines
- Explain and develop the drawings in the construction stage for contractors and trades
- Scheduled the city inspectors and construction process

1992-2002 Licensed Architect, Far-Pouyan Consulting Engineering Co., Tehran, Iran

1991-2002 Assistant Professor, Curriculum Designer, Program Advisor, I. Azad University, Iran
References and more detailed description available upon request

1991-1993 Architectural Technologist, Farzaneh Consulting Engineering Co., Tehran Branch
All references and documents available upon request

SCHOLARSHIPS

Travel award U of C to present in GRC/GRS conference **2018**
\$1500 to travel to Les Diablerets CH-1865, Switzerland
Title: Use existing Architectural Technology diploma program sustainability courses, to teach the fundamentals of Industrial Ecology (IE)

Alberta Masonry Council (AMC) – Scholarship Award of Excellence, **2019 to 2021**
\$22,000 in three years, to support the Ph.D. research

RAIC & NAIT - Vitoria Stone Fair in Vitoria, Brazil, February 18-22, **2014**
Grant to cover the cost of the one-week course in Natural stone from a quarry to installation
https://www.raic.org/resources_archives/newsletters_bulletins/2014/january/news_e.htm

City of Edmonton & Northern Alberta Institute of Technology, NAIT **2014**
Scholarship for study six days CPHD, Passive House Design course
<http://www.passivehouse.ca/professional-certification/>

PUBLICATION, CONFERENCE PRESENTATIONS, EXHIBITION

1. Wood-Frame House Construction, University of Alberta **2018**
Oral presentation: Wood-Frame House Construction in Canada

Farsi language presentation for newcomers, builders, entrepreneurs, foreign-trained Architect and Engineers

2. The Role of Industrial Ecology in Reaching the Sustainable Development Goals, Gordon Research Seminar, Les Diablerets, Switzerland 2018

Oral presentation: Use Existing Architectural Technology Diploma Program Sustainability Courses, to Teach the Fundamentals of Industrial Ecology (IE)
Case study

<https://www.grc.org/industrial-ecology-grs-conference/2018/>

3. Role of an architect in today's construction sector, University of Alberta 2016

Oral presentation: Wood-Frame House Construction in Canada
Farsi language presentation for newcomers, builders, entrepreneurs, foreign-trained Architect and Engineers

4. Construction Research Congress (CRC) 2014 Annual Conference, Atlanta 2014

Faisal ARAIN, Tim MCFARLANE, Don MAH, and Mehdi ZAHED
Emerging Project Delivery Trends in Canadian Construction Industry.
Construction Research Congress (CRC) 2014 Annual Conference, Atlanta

<http://ascelibrary.org/doi/abs/10.1061/9780784413517.143>

5. aceBIM Symposium 2013, Edmonton, Calgary, Alberta 2013

Developing an Authentic and Collaborative BIM Course Presentation

<http://www.acebim.ca/acebim-symposium-2013-presentations>

<http://www.acebim.ca/uploads/files/Symposium2013/Arain-Mah-Zahed-NAIT-aceBIM-2013.pdf>

7. Group Exhibition, Toronto, Ontario 2010

Photography works, at The Sunnyside Beach Juried Art Show & Sale, Toronto, Ontario

http://www.artinitiatives.ca/sunnyside/home_files/Sunnyside2010Catalog.pdf

Volunteer works:

1. Skills Canada, Alberta, Canada 2012 to Present

Creator and Chair of the post-secondary competitions in the province of Alberta, Provincial Chair in Architectural Technology and Design competition (52), member of the Provincial Technical Committee (PTC) and the National Technical Committee (NTC)

2. RAIC, Edmonton Chapter, Alberta, Canada 2020 to Present

Creator and Chair of the Young Architects Competition Task Force in the province of Alberta. This newly established initiative started to provide meaningful and engaging competition for new graduates in architecture and design programs across the province and it is an ongoing task.

3. Member of Building Science Specialist Board, Educators Subcommittee 2019 to Present

I work with all members across Canada to develop standards for BSSB designation, Establish programs across the home province of Alberta for Building Science courses and facilitate the designation online courses and exams. This is an ongoing task.

4. The American Center for Life Cycle Assessment (ACLCA) 2019 to Present

I work as a reviewer to evaluate and provide feedback for oral presentations, conference papers, poster presentations, special sessions, for 2020 conference, held on September 22 – 24, 2020 in Madison, Wisconsin, USA. This is an ongoing task.

Reference: <https://aclca.org/>

5. Mehdi Zahed, Personal YouTube channel 2017 to Present

I present short lectures for foreign-trained architects in both English and Persian language to provide general information and mentor member of the community in the following topics such as job search, Canadian construction methods and systems, Canadian handbook of practice (CHOP) for architects, the process to become a licensed architect in Canada, etc. this is an ongoing initiative to help our community and educate public in architecture.

Reference: https://www.youtube.com/channel/UC1-NAGN-mR1VZb5KF2WV4Lg?view_as=subscriber

6. Habitat for Humanity, Edmonton Alberta 2011 to 2017

Coordinate, monitor and supervise NAIT's students' activities during their time with the Habitat for Humanity Edmonton branch every year

7. Tirgan, Photographer, Toronto, Ontario 2008 and 2011

Tirgan is the name for the largest Iranian Festival outside of Iran, Every other year held in Toronto, Ontario

<http://2008.tirgan.ca/>

<http://2011.tirgan.ca/about/organizers/tirgan-family>

<http://www.tirgan.ca/sites/default/files/sponsorship-package-2013.pdf>

<http://www.tirgan.ca/sites/default/files/Outreach%20Presentation.pdf>

8. Tasnim Society of Edmonton, Alberta 2012 to Present

Consultant, Speaker, and coordinator, Edmonton Alberta

<http://tasnimsociety.com/index.php/aaa/345-1394-11-19-02-43-51.html>

References:

Upon request