

Hosein Taghaddos, PhD, PEng

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EDUCATION

- PhD, Construction Engineering and Management, Civil and Environmental Engineering, 2005 –2010
University of Alberta, Canada
- MSc, Structure, Civil Engineering, , 2002 - 2004
University of Tehran, Iran
- BSc, Civil Engineering, 1998 – 2002
University of Tehran, Iran
- Professional Engineer (PEng), Member of Association of Professional Engineers and Geoscientists of Alberta (APEGA), Canada

EXPERIENCE

- Assistant Professor, School of Civil Engineering, University of Tehran, Iran, Feb 2014- Present
- Director of Tecnosa R&D center, University of Tehran, Iran, , Aug 2016- Present (18 months)
- Director of Computer center, School of Civil Engineering, University of Tehran, Iran, Aug 2016 - Present
- Construction Engineer at PCL Industrial Management Inc., Edmonton, AB
September 2012- 2015 (3 years)
- Engineering Business Analyst at PCL Industrial Management Inc., Edmonton, AB
Jan. 2011- September 2012 (20 months)
- Construction Coordinator at PCL Industrial Management Inc., Edmonton, AB
Jan. 2010-Jan 2011 (1 year)
- Research Assistant at University of Alberta
2005-2010 (4.5 years)
- Structural engineer at Imen-Sazeh Consulting Engineers Ltd., Tehran, Iran
2004-2005 (1 year)
- Structural engineer at LACECO Consulting Engineers Ltd., Beirut, Lebanon
2004-2004 (2 months)

RESEARCH EXPERIENCE

- Energy Modeling & Sustainability Analysis
 - ✓ Directing LEED\DGNB of evaluation of a luxury residential building, Tehran, Iran (2015-Present)
 - ✓ Translating guide reference building design and construction in LEED (2016-Present)
- Building Information Modeling
 - ✓ Directing successful implementation of BIM for two luxury residential buildings, Tehran, Iran (2015-Present)

- ✓ Directing successful implementation of BIM for bridge construction, Iran (2015-2016)
- Project planning and scheduling using simulation modeling
 - ✓ Developing a novel system for effective scheduling of gas pipelines, Iran (Nov 2017- Present)
 - ✓ Developing a novel system for effective scheduling of multiple heavy lifts in modular construction, PCL Industrial Management Inc., Edmonton, AB (March 2009- Present)
 - ✓ Developing a novel system for effective scheduling of Mehrabad Airport's Runway, Tehran, Iran (March 2016- Dec 2017)
 - ✓ Developing a novel system for effective planning of Koukoutamba RCC Dam, Guinea Bissau (Sep 2016- Dec 2016)
 - ✓ Developing a simulation-based scheduling and progressing system for layout optimization and effective resource allocation of module assembly yard, PCL Industrial Ltd., Edmonton, AB (Jan. 2007- Present)
 - ✓ Developing a simulation-based system for work face planning, progressing and congestion management of industrial projects, PCL Industrial Management Inc., Edmonton, AB (July 2010- Jan 2014)
 - ✓ Developing a simulation model template for scheduling enhancement of tower cranes in construction of Edmonton south clinic, PCL Construction, Edmonton, AB (Aug. 2007- Sep 2009)
- Applications of information technology to construction management
 - ✓ Developing an integrated database (in MS Access and SQL) for crane selection, sequencing and lift planning of industrial projects, PCL Industrial Management Inc., Edmonton, AB (Jan 2010 - Dec 2012)
 - ✓ Developing a system for automation of optimum crane selection, locating and path planning of mobile cranes for multiple lifts in industrial projects using game theory and simulation modeling, PCL Industrial Management Inc., Edmonton, AB (March 2009- Jan 2012)
 - ✓ Developing an Access interface for scheduling and progressing modules in the module assembly yard and interaction with commercial scheduling software, PCL Industrial Ltd., Edmonton, AB (Jan. 2007- Dec 2010)
 - ✓ Developing a general purpose template in Symphony.Net software for construction simulation, University of Alberta, Edmonton, AB (2008)
- Knowledge management
 - ✓ Developing a novel plant information modeling framework for industrial construction using 4D Technology, PCL Industrial Ltd., Edmonton, AB (Aug. 2007- Sep 2009)
 - ✓ Developing a simulation model for scheduling and effective resource allocation in pipe spool fabrication shop, PCL Industrial Ltd., Edmonton, AB (Aug. 2007- Present)
- Infrastructure monitoring and rehabilitation
 - ✓ Pavement management based on International Roughness Index (IRI), University of Alberta, Edmonton, AB (2006)
 - ✓ Statistical analysis of precision of concrete compressive strength measurements, University of Alberta, Edmonton, AB (2006)

- Planning and design of construction materials Institute (CMI), University of Tehran, 2000- 2005, involved in the following projects:
 - ✓ Developing a finite element software to predict the service life of concrete structures exposed to chloride, Managing and Planning Organization of Iran (2003-2005)
 - ✓ Non-destructive tests on concrete using impact echo, Terracomm Instrument Co., Canada (2003-2004)
 - ✓ Performing field tests to predict the service life of concrete structures exposed to chloride in the first academic research site in Persian Gulf, Bandar-abbas, Iran (2003)
 - ✓ Conducting research on ultra high strength and fiber reinforced Concrete, University of Tehran, Iran (2000-2002)

ACADEMIC COURSES TAUGHT

- Lecturer, Database Management, University of Alberta, 2007
- Teaching Assistant, De
- sign and Analysis of Construction Operations, University of Alberta, 2008
- Teaching Assistant, Computer Application in Construction, University of Alberta, 2007, 2006
- Teaching Assistant, differential equation, University of Tehran, 2003-2004
- Teaching Assistant, Mathematic courses, Mofid High school, 1998-2001

JOURNAL PAPERS

1. Mohamed, Y., Hu, D., *Taghaddos, H.*, Hermann, U. (2017) "A Simulation-Based Method for Effective Workforce Planning of Industrial Construction Projects." *Construction Management and Economics* 1, no. 1 (2017): 1-20.
2. *Taghaddos, H.*, AbouRizk, S.M., Mohamed, Y., Hermann, U. (2014)" A Simulation-Based Multi-Agent Approach for Scheduling Modular Construction", *Journal of Computing in Civil Engineering*, 28(2), 263-274, April 2014.
3. *Taghaddos, H.*, AbouRizk, S.M., Mohamed, Y., Hermann, U. (2012)" Simulation Based Auction Protocol for Resource Scheduling Problems", *Journal of Construction Engineering and Management*, 138(1), 31–42, January 2012.
4. *Taghaddos, H.*, Soleymani, H.R., Robson, J.D. (2010)" Precision of Compressive Strength Testing of Concrete with Different Cylinder Specimen Sizes", *ACI Materials Journal*, 461-468, October 2010.
5. Lei, Z., Han, S., Bouferguène, A., *Taghaddos, H.*, Hermann, U., Al-Hussein, M. (2014) "Algorithm for Mobile Crane Walking Path Planning in Congested Industrial Plants", 1-10, *Journal of Construction Engineering and Management*.
6. Lei, Z., *Taghaddos, H.*, Hermann, U., Al-Hussein, M. (2013) "A Methodology for Mobile Crane Lift Path Checking in Heavy Industrial Projects", *Journal of Automation in Construction*, 41-53, May 2013
7. Lei, Z., *Taghaddos, H.*, Olearczyk, J., Al-Hussein, M., Hermann, U. (2013) "Automated Method for Checking Crane Paths for Heavy Lifts in Industrial Projects", *Journal of Construction Engineering and Management*.
8. Pourmoghaddam A., *Taghaddos, H.*, Mahmoodzadeh F., & Shekarchizadeh M. (2005), "Distribution of Fibers in Steel Fiber Reinforced concrete", *Civil Engineering Infrastructures Journal (CEIJ)*, 39(3), pp.311-318, Sep. 2005.
9. *Taghaddos, H.*, AbouRizk, S.M., Mohamed, Y., Hermann, U. (submitted)" Development of a Generic Resource Allocation Federate for Construction federations", *Journal of Automation in Construction*.

10. Leonard B. and *Taghaddos, H.* (Submitted) "A Novel Framework for Integrating Schedule and 3D Model for 4D Scheduling", *Journal of Automation in Construction*.
11. Lei, Z., *Taghaddos, H.*, Han, S., Bouferguènc, A., Al-Hussein, M., Hermann, U. (submitted) "From AutoCAD to 3ds Max: An automated approach for animating heavy lifting studies", *Canadian Journal of Civil Engineering*.
12. Samadi, D., *Taghaddos, H.*, Nili, M.H., Noghabaei, M. (submitted) "Development of a Bridge Maintenance System Using Bridge Information Modeling", *Journal of Bridge Engineering*.
13. *Taghaddos, H.*, Hermann, U., Abbasi, A.B. (submitted) "Advanced Crane Planning and Optimization for Modular Construction", *Journal of Automation in Construction*.
14. *Taghaddos, H.*, Hermann, U., Sherafat, B. (submitted) "An Automated Approach to Generating Engineered Crane Lift Studies" *Journal of Construction Engineering and Management* site.
15. Wu, L., Mohamed, Y., Ali, M., *Taghaddos, H.*, Hermann, U. (submitted) "Estimating Scaffold for Industrial Construction: A Case Study Contributing" *Canadian Journal of Civil Engineering*.
16. Sherafat, B., *Taghaddos, H.*, Shafaghat, E. (submitted) "Enhanced Automated Quantity Take-Off in Building Information Modeling" *Journal of Automation in Construction*.
17. Sebt, M.H., Dadashi, M., *Taghaddos, H.*, Banki, M.T. (submitted) "An empirical study of the advantages of 4D simulation based on BIM maturity level" *Journal of Engineering, Construction and Architectural Management*.
18. Farahani, A., *Taghaddos, H.*, Shekarchi, M. (submitted) "Chloride diffusion modeling in pozzolanic concretes in a marine site" *ACI Materials Journal*.
19. Farahania, A., *Taghaddos, H.*, Shekarchic, M. (submitted) "Influence of Repair on Corrosion Failure Modes of Square RC Columns Located in Tidal Zone" *Journal of Performance of Constructed Facilities*.

CONFERENCE PAPERS

1. *Taghaddos, H.*, Mashayekhi, A., Sherafat, B. (2016) "Automation of Construction Quantity Take-off: Using Building Information Modeling (BIM)" *Proceeding of the Construction Research Congress 2016*, pp 2218-2227, May 31-June 2, San Juan, Puerto Rico.
2. *Taghaddos, H.*, Eslami, A. (2016) "Automation of Construction Quantity Take-off in a BIM Model" *Proceeding of the Construction Research Congress 2016*, pp 2312-2321, May 31-June 2, San Juan, Puerto Rico.
3. Ali, M., Mohamed, Y., *Taghaddos, H.*, Hermann, U. (2015). "BIM Obstacles in Industrial Projects: A Contractor Perspective" *Proceeding of the 5th International/11th Specialty Conference*, Canadian Society of Civil Engineers, Vancouver, Canada, pp 026-1-10, June 8-10, 2015.
4. Wu, L., Mohamed, Y., *Taghaddos, H.*, Hermann, U. (2014) "Analyzing Scaffolding Needs for Industrial Construction Sites Using Historical Data" *Proceeding of the, Construction Research Congress 2014*, pp 1596-1605, May 19-21, Atlanta, Georgia.
5. Wu, L., Mohamed, Y., *Taghaddos, H.*, Hermann, U. (2014) "Analyzing Scaffolding Needs for Industrial Construction Sites Using Historical Data" *Proceeding of the, Construction Research Congress 2014*, pp 1596-1605, May 19-21, Atlanta, Georgia.
6. Leonard B. and *Taghaddos H.* (2013) "Developing Visualized Schedules for Plant Information Modeling" *Proceeding of the 30th International Symposium on*

- Automation and Robotics in Construction (ISARC 2013), Montreal, Canada, Aug 11-15, 2013.
7. Lei, Z., *Taghaddos, H.*, Hermann, U., Al-Hussein, M. (2013) "Integrating Mobile Crane Lift Path Checks into an Industrial Crane Management System" Proceeding of the 30th International Symposium on Automation and Robotics in Construction (ISARC 2013), Montreal, Canada, Aug 11-15, 2013.
 8. Kumar, C., AbouRizk, S.M., Mohamed, Y., *Taghaddos, H.* (2013) "Estimation and Planning Tool for Industrial Construction Scaffolding" Proceeding of the 30th International Symposium on Automation and Robotics in Construction (ISARC 2013), Montreal, Canada, Aug 11-15, 2013.
 9. *Taghaddos, H.*, Hermann, U., AbouRizk, S.M., Mohamed, Y. (2011). "Planning Multi-Project Construction Problems using a Simulation-Based Auction Protocol" Proceeding of the CSCE 2011 Annual Conference, Canadian Society of Civil Engineers, Ottawa, Canada, June 14-17, 2011.
 10. AbouRizk, S.M., Mohamed, Y., *Taghaddos, H.*, Saba, F., Hague S. (2010) "Developing Complex Distributed Simulation for Industrial Plant Construction Using High Level Architecture" Proceeding of the 2010 Winter Simulation Conference, Baltimore, USA, Dec 5-8, 2010.
 11. *Taghaddos, H.*, Hermann, U., AbouRizk, S.M., Mohamed, Y. (2010). "Simulation-based Scheduling of Modular Construction using Multi-Agent Resource Allocation," Proceeding of the Second International Conference on Advances in System Simulation, Nice, France, August 22-27, 2010.
 12. *Taghaddos, H.*, AbouRizk, S.M., Mohamed, Y., Hermann, U. (2010). "Simulation-Based Multiple Heavy Lift Planning in Industrial Construction," Proceedings of the Construction Research Congress 2010, pp. 349-358, Banff, AB, 2010.
 13. *Taghaddos, H.* (2009). "Developing a Generic Resource Allocation Framework for Construction Simulation" Proceeding of the 16th Annual Canadian Construction Research Forum, Banff, Alberta, Canada, August 9-11, 2009.
 14. *Taghaddos, H.*, Saba, F., ElNimr, A. (2009). "An Overview of the COSYE Environment for Construction Simulation" Proceeding of the 16th Annual Canadian Construction Research Forum, Banff, Alberta, Canada, August 9-11, 2009.
 15. Moghani, E., *Taghaddos, H.*, Salehi, M., AbouRizk, S.M., Mohamed, Y. (2009). "Simulation-Based Schedule Enhancement of Tower Crane" Proceeding of the CSCE 2009 Annual Conference, Canadian Society of Civil Engineers, St. John's, Canada, May 27-30, 2009, pp. ICS0701-ICS0709.
 16. *Taghaddos, H.*, AbouRizk, S.M., Mohamed, Y., Hermann, U. (2009). "Integrated simulation-based scheduling for module assembly yard" Proceeding of the 2009 Construction Research Congress, Seattle, US, April 5-7, 2009, pp. 1270-1279.
 17. *Taghaddos, H.*, AbouRizk, S.M., Mohamed, Y., Ourdev, I. (2008) "Distributed Agent-Based Simulation of Construction Projects with HLA" Proceeding of the 2008 Winter Simulation Conference, Miami, US, December 7-10, 2008, pp. 2413-2420.
 18. *Taghaddos, H.*, AbouRizk, S.M., Mohamed, Y., Hermann, U. (2008). "Simulation-based resource leveling in multi-project construction" CSCE 2008 Annual Conference, Canadian Society of Civil Engineers, Quebec City, Canada, June 10-13, 2008, pp. GC4241-GC42410.
 19. *Taghaddos H.*, Mahmoodzadeh F., Noorzad A., Mohammadi S., Ansari A. (2004) "A comparison of service life prediction of concrete structures using element-free Galerkin, finite element and finite difference methods" Seventh International

- Conference on Computational Structures Technology (CST 2004), Lisbon, Portugal, September 7-9, 2004, pp. 367-369.
20. Shekarchizadeh M., Mahmoodzadeh F., *Taghaddos H.*, Sadri M.R., Fazlavi M. (2004) "Estimating concrete strength with impact echo system using a neuro-fuzzy method" Proceedings of the annual conference of the British Institute of Non Destructive Testing (BINDT), September 14-16, 2004.
 21. *Taghaddos H.*, Mahmoodzadeh F., Noorzad A., Mohammadi S., Ansari A. (2004) "Solving the chloride diffusion equation by mesh free and conventional methods", Proceedings of the 7th International Conference On Concrete Technology in developing countries (ICCT 2004), Kuala Lumpur, Malaysia, October 5-8, 2004, pp. 201-212.
 22. *Taghaddos H.*, Mahmoodzadeh F., Pourmoghaddam A. & Shekarchizadeh M. (2004) "Prediction of compressive strength behavior in RPC with applying an Adaptive Network-Based Fuzzy Interface System" Proceedings of the International Symposium on Ultra High Performance Concrete (UHPC 2004), Kassel, Germany, September 13-15, 2004, pp. 273-284.
 23. Sadri M.R., Mahmoodzadeh F., *Taghaddos H.*, Shekarchizadeh M., Fakher. A. (2004) "Studying the relation of P wave velocity and compressive strength of RCC specimens using a neuro-fuzzy method" Proceedings of the 7th International Conference On Concrete Technology in developing countries (ICCT 2004), Kuala Lumpur, Malaysia, October 5-8, 2004, pp. 213-224.
 24. Mahmoodzadeh F., *Taghaddos H.*, Shekarchizadeh M., Noorzad A., Ansari A. (2004) "Estimate the diffusion coefficient of concrete using Neuro-fuzzy" Proceedings of the 5th Iranian Conference on Fuzzy Systems (ICFS 2004), Tehran, Iran, September 7-9, 2004, pp. 223-230.
 25. Mahmoodzadeh F., *Taghaddos H.*, Pourmoghaddam A. & Shekarchizadeh M. (2003) "Study of Distribution and Orientation of Fibers in Steel Fiber Reinforced concrete" Proceedings of the 6th International Conference on Civil Engineering (ICCE 2003), Isfahan, Iran, May 5-7, 2003, pp. 261-268.

OTHER PUBLICATIONS

- Mahmoodzadeh F., *Taghaddos H.*, "Introducing Portable Impact Echo System", Road and Building Magazine # 7, January 2004, pp. 56.

POSTER PRESENTATIONS

- Construction Research Congress, May 2010
- Winter simulation Conference Ph.D. Colloquium, December 2008
- Cold Climate Construction Conference, April 2008
- Project Cost Management Workshop, April 2008
- Canadian Society of Civil Engineering (CSCE) 2008, March 2008
- 14, 15, 16, 17th Annual Canadian Construction Research Forum

SUPERVISOR THESIS

1. Behnam Sherafat, Supervisor Hosein Taghaddos, "Semi-automatic Schedule Generation in Construction Projects Employing Building Information Modeling and Simulation", MSc., 2017.
2. Reza Sadeghi Najafabadi, Supervisor Hosein Taghaddos, "Space-Constrained Scheduling Using BIM and Lean Principles", MSc., 2017.

3. Mehran Mahmoudi, Supervisor Hosein Taghaddos, "Improving Schedule of Gas Pipeline Projects Through the Development of Lean Construction Principles", MSc., 2017.
4. Ariobarzan Abbasi, Supervisor Hosein Taghaddos, "Simulation and Building Information Modeling Based Framework for Enhancing Construction Planning (Case Study of Runway)", MSc., 2017.
5. Dana Samadi, Supervisor Hosein Taghaddos, "Optimized Maintenance Management of Infrastructures Using Building Information Modeling (BIM)", MSc., 2017.
6. Arash Eslami, Supervisor Hosein Taghaddos, "Optimization of Mobile Crane Scheduling in Multi-Lift Problems Using Simulation Methods", MSc., 2017.
7. Farzad Mohebbifar, Supervisor Hosein Taghaddos, "Employing Earned Value Method and Building Information Modeling to Enhance Time and Cost Management in Construction Projects Applying a Case Study", MSc., In Process.
8. Zahra Andaieshsar, Supervisor Hosein Taghaddos, "Employing Building Information Modeling and Takt Time Planning of Lean Principles to Enhance Cost Management", MSc., In Process.
9. Zahra Salimi, Supervisor Hosein Taghaddos, "Assessment and Semi-Automated Control of the Buildings Fire and Seismic Safety Criteria using Building Information Modeling (BIM)", MSc., In Process.
10. Sara Rad, Supervisor Hosein Taghaddos, "Study of Risk Management in Gas Pipeline Projects Using Building Information Modeling (BIM)", MSc., In Process.
11. Khashayar Esmaeli, 1st Supervisor Mohamad Saed Karimi, 2nd Supervisor Hosein Taghaddos, "Enhancing Construction Process Based on Lean Production Concepts Using Simulation Modeling", PhD., In Process.
12. Shahriar Tolouei, Supervisor Hosein Taghaddos, "Controlling and Realtime Planning Based on Lean Management Concepts Using Simulation and Building Information Modeling (Runway Case Study)", MSc., In Process.
13. Maryam Moazami, Supervisor Hosein Taghaddos, "Optimization of Planning for Construction & Maintenance of Gas Pipeline Transmission Projects using Discrete Event Simulation", MSc., In Process.
14. Atieh Farahani., 1st Supervisor Mohamad Shekarchizade, 2nd Supervisor Hosein Taghaddos, "Life Cycle Oriented Design of Reinforced Concrete Structures Under Corrosion Attack", PhD., In Process.
15. Mohammad Hosein Nili, Supervisor Hosein Taghaddos, "BIM-Based Bridge Maintenance Management", PhD., In Process.
16. Mohammad Arzani, Supervisor Hosein Taghaddos, "Comparison of Traditional and Novel Methods of Constructing Gas Pipelines Considering Whole Life Cost Analysis (WLCA)", MSc., In Process.
17. Navid Kayhani, Supervisor Hosein Taghaddos, "Construction Equipment Path Planning Using Virtual Construction Tools (Case Study of Mobile Cranes)", MSc., In Process.
18. Farid Shahnavaz, Supervisor Hosein Taghaddos, "Optimizing Type and Location of Mobile Cranes (Case Study of a Modular Construction Project)", MSc., In Process.
19. Erfan Abou, Supervisor Hosein Taghaddos, "Study and Evaluation of Second (Vickery) Auction in Construction", MSc., In Process.
20. Mehrdad Azadi, Supervisor Hosein Taghaddos, "Enhancing Material Management in Construction by Using Radio Frequency Identification (RFID) Technology", MSc., In Process.

21. Mojtaba Rezvani, Supervisor Hosein Taghaddos., “Using Building Information Modeling (BIM) and Virtual Reality (VR) to Design Sustainable Buildings - Residential Building Case Study”, MSc., In Process.
22. Bahareh Alizadeh, 1st Supervisor Amin Alvanchi, 2nd Supervisor Hosein Taghaddos, “Impact Assessment of Modular Construction on Energy Efficiency of Buildings Using Building Information Modeling (BIM)”, MSc., In Process.
23. Siavash Azizpour, Supervisor Hosein Taghaddos, “Evaluation and Management of Solar Cells in Residential Projects in IRAN by Employing GREEN BIM Factors - Case Study”, MSc., In Process.

AWARDS

1. Queen Elizabeth II Graduate Scholarship, University of Alberta, 2009, 2010.
 2. Professional Development & Travel Grant, University of Alberta, April 2009.
 3. Bruce F Wilson Graduate Scholarship in Urban Engineering, October 2008.
 4. Robert Stollery / USF&G Award, Insurance Company of Canada, September 2008.
 5. J Gordin Kaplan Graduate Student Award, July 2008.
 6. AACE International Scholarship, AACE Edmonton, May 2008.
 7. ASME OMAE Scholarship, PII Pipeline Solutions, September 2007.
 8. System Dynamics Graduate Scholarship, University of Alberta, September 2007.
 9. FS Chia PhD Scholarship, University of Alberta, 2005, 2006.
- Ranked 1st place at the PhD entrance exam among more than 100 applicants of the structural engineering major, University of Tehran, 2004.
 - Ranked 2nd place among the graduating students of the Master’s Program at the Department of Civil Engineering, University of Tehran, 2004.
 - Selected to participate in the IAESTE exchange program between University of Tehran and American University of Beirut (AUB), 2004.
 - Ranked the 10th among the graduating students of the Bachelor’s Program at the Department of Civil Engineering, University of Tehran, 2002.
 - Ranked 123 at the governmental university entrance exam among more than 400,000 applicants of the engineering majors at Iranian governmental universities, 1998.

HONORS

- Honored by the chair of department of civil & environmental engineering as the outstanding student in the construction engineering research group, University of Alberta (August 2008).
- Honored by the head of the Iranian national parliament as the outstanding student of the year 2004 (January 2004).
- Honored by dean of civil engineering department as the best master student in the field of structural engineering, University of Tehran (December 2004).
- Honored by university alumni for ranking the first place on high strength concrete, University of Tehran (March 2002).
- Honored by dean of faculty of engineering for ranking the first place on high strength concrete, University of Tehran (October 2001).

COMMUNITY INVOLEMENT

- Guest Speaker in Modular Construction Summit (2012)
- Judging in Sustaining Infrastructure Specialty Conference (CSCE 2012)

- Board, Operational Vice President of the Tasnim (Iranian Islamic Cultural) Society in Edmonton (2010-2012)
- Member of Canadian Society of Civil Engineering (2005- 2007, 2011-2012)
- Member of American Society of Civil Engineering (2009- 2012)
- Member of Toastmaster Club for practicing public speaking (2010- 2012)
- Member of Institute of Electrical and Electronics Engineers (2010-2011)
- Executive member and collaborating with student associations (MSA, ISAUA, FGSR-Outreach) at the University of Alberta, 2005-2009