



» Curriculum Vitae

S. M. Reza Alavipour

PhD, CMAA Authorized Trainer, PMP, CMIT

CEO of Alavipour Construction Engineering and Management Institute (ACEMI)

PhD in Construction Engineering and Management from Illinois Tech (IIT), USA

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Summary

CEO of Alavipour Construction Engineering and Management Institute (ACEMI) — a leading institute dedicated to advancing construction engineering and project management through education, research, and consulting. As the CMAA Authorized Trainer in Iran and author of the first national standard in Construction Management, Reza has been actively engaged in shaping the future of the industry by empowering professionals and organizations with practical, research-driven solutions.

In addition to leading ACEMI, Reza currently serves as Vice Chairman of the Board at **Ofoq Negar**, a legacy engineering firm founded in 1987 specializing in surveying (land, aerial, marine, and underground) and infrastructure projects, and as Board Member at **Paran Beton**, a long-established company focused on concrete segment and precast production for urban and infrastructure applications. These roles integrate high-level strategy with deep technical insight and industry leadership.

Reza received his PhD in Construction Engineering and Management from Illinois Tech (IIT), USA, graduating with a perfect GPA (4.04.0/). Over the past 19+ years, he has developed as a researcher, instructor, and consultant, combining Civil Engineering fundamentals with a strong problem-solving mindset. His academic involvement includes more than 10,000 hours of teaching, over 130 peer reviews, and a portfolio of international publications (7 journal papers, 4 conference papers presented or published and more than 8 books). He is also the Founder of the International Construction Industry Events (ICIE) and Chair of the International Construction Management Symposium (ICMS).

Reza holds a PMP® certification from PMI, and CMIT and CM Level 3 credentials from CMAA. He was recognized as an Outstanding Reviewer by ASCE in 2021 and the Journal of Public Procurement in 2022, and led a joint research project for CMAA and ASCE in the United States — reinforcing his dedication to bridging academic knowledge with industry practice at a global level.



Education and Qualifications

PhD	Construction Engineering and Management, GPA=4.0 out of 4.0	Graduated: August 2017
	<i>Illinois Institute of Technology</i>	<i>Chicago, IL/USA</i>
Relevant Courses: Business Analytics and Competitive Advantage Modeling, Construction Contract Administration, Construction Planning and Scheduling, Construction Methods and Cost Estimating, Legal Issues in Construction, Economic Decision Analysis, System Analysis in Construction, Lean Construction and Control, Construction Equipment Management Paper: Published five journal papers and presented/published two conference papers Dissertation: Project Scheduling Using Optimized Financing Awards: Recognized as a Iran's Elite National Talent by Iran's National Elites Foundation		
MS	Civil Engineering-Geotechnical Engineering	Graduated: March 2013
	<i>University of Guilan</i>	<i>Rasht/Iran</i>
Papers: Published two journal papers and presented/published two conference papers Awards: Selected as the Top researcher in 2011		
BS	Civil Engineering	Graduated: September 2010
	<i>Ferdowsi University of Mashhad</i>	<i>Mashhad/Iran</i>

International Management and Language Certifications

1	CMAA Authorized Trainer from Construction Management Association of America (CMAA), 2024
2	PMP from the Project Management Institute (PMI) in USA, 2017
3	CM Level 3 from the Construction Management Association of America (CMAA), 2016
4	CMIT from the Construction Management Association of America (CMAA), 2016
5	TOEFL from the ETS Institute, 2013
6	GRE from the ETS Institute, 2012

Professional Certificates

1	Economics Course , 16 hours, Aryana Industrial & Research Group, 2013
2	Feasibility Study Workshop , 24 hours, Aryana Industrial & Research Group, 2012
3	Human Resource Management , 8 hours, Aryana Industrial & Research Group, 2012
4	Lessons Learned Management Workshop , 8 hours, Aryana Industrial & Research Group, 2012
5	WBS Creation in Projects , 8 hours, Aryana Industrial & Research Group, 2012
6	Risk Management in EPC Projects , 8 hours, Aryana Industrial & Research Group, 2012
7	Project Management Office Concept (PMO) , 8 hours, Aryana Industrial & Research Group, 2012



Professional Certificates (Continued)

8	Appraising of Investment Opportunities , 8 hours, Aryana Industrial & Research Group, 2012
9	COMFAR111 Workshop , 24 hours, Aryana Industrial & Research Group, 2012
10	Project Management Principles using PMBOK , 30 hours, Civil house R&D institute, 2011
11	Project Management using MSP Software , 30 hours, Civil house R&D institute, 2011
12	Concrete Design , 30 hours, Civil house R&D institute, 2010
13	Building Calculations using ETABS&SAFE software , 50 hours, Civil house R&D institute, 2009

Research and Consulting Expertise

• System Analysis and Optimization in terms of Scheduling, Resource Allocation, Time-Cost Trade-off, Financing, Warehouse Planning, Transportation, Assignments and Assignee, Queuing of Equipment
• Economic Decision Analysis for: (1) Investment, (2) Financing, (3) Portfolio Management, (4) Warehouse, (5) Transportation, (6) Resources
• Feasibility Study in terms of Market Research, Technical Study, and Financial Analysis
• Construction Cost Estimating
• Construction Cost Accounting, and Financial and Budget Management
• Construction Contract Document Preparation and best selection of Project Delivery System (DBB, DB/EPC, Multiple Primes, CM, IPD, BOT)
• Construction Contract Document Preparation and best selection of Project Delivery System (DBB, DB/EPC, Multiple Primes, CM, IPD, BOT)
• Claim Management and Delay Analysis using SCL Protocol, AACE Documents, and ASCE Standard
• Construction management based on BIM-Based Delivery System
• Decision Management using Data Analysis and Decision Making Methods (Decision Tree, Excel Precision Tree, and Excel Solver)
• Lean Construction
• Construction Equipment Planning
• Program Management in terms of Budgetary Planning, Execution, and Reporting Function
• PMO Planning and Implementation
• Risk Management
• Quality Management

Software Skills

• Primavera, MS Project, Prism (graphpad.com), MATLAB, Microsoft Office (Excel, Word, PowerPoint), Excel Solver, Excel Precision Tree, On Screen Takeoff, RSMeans Online
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Academic and Professional Experience

February 2025-Present	Vice Chairman of the Board	Ofoq Negar	Tehran/Iran
As the Vice Chairman of the Board at a well-established surveying and civil engineering company founded in 1987, I am responsible for overseeing and contributing to the strategic planning of land, aerial, marine, and underground surveying projects, as well as road construction and infrastructure operations. My role includes coordinating technical teams, reviewing project performance, developing business partnerships, and ensuring alignment with the company's charter and technical standards.			
March 2023-Present	Founder and Chair	International Construction Industry Events (ICIE)	Tehran/Iran
International Construction Industry Events (ICIE) founded by Alavipour Construction Engineering and Management Institute (ACEMI) with the aim of holding the biggest events in the construction industry, leading to the growth of the industry and its stakeholders. ICIE is supposed to develop the knowledge and communication network in various fields of the construction industry, namely Construction Management (CM), Construction Business Management (CBM), and Construction Engineering (CE).			
September 2021-Present	Member of the Board	Paran Beton LLC	Tehran/Iran
As a Member of the Board of Directors at Paran Beton, I contribute to strategic decision-making, oversee operational developments, and support the company's expansion into new product lines — including precast concrete. Drawing on Paran Beton's legacy since 1986 in the design and production of concrete segments and ready-mixed concrete, I collaborate with the executive team to ensure quality, innovation, and sustainable growth in the construction and urban infrastructure sectors.			
March 2019-Present	Chief Executive Officer (CEO)	Alavipour Construction Engineering and Management Institute (ACEMI)	Tehran/Iran
- The Alavipour Construction Engineering and Management Institute (ACEMI) is an Iranian organization that works exclusively for the interests of professional Construction Engineering and Management in the Middle East. ACEMI was formed to: (1) provide professional education programs for construction managers in the middle east, (2) provide standards for the construction industry in the Middle East, (3) provide unique identity for construction managers in the Middle East, (4) qualify construction managers for construction projects in the middle east, and (5) help owners to improve project outcomes using certified construction managers in their projects in the Middle East. ACEMI has a Main Core Committee (MCC) that provides the strategy for the organization and three professional committees, namely: (1) Professional Education Committee (PEC), (2) Professional Consulting Committee (PCC), and (3) Content Creation Committee (CCC) to provide the best services in education, consulting and training in the Middle East. - Teaching many courses for more than 4,000 hrs. in a wide range of Project and Construction Management ASCE 2021 Outstanding Reviewer (Journal of Construction Engineering and Management) Journal of Public Procurement Literati Award Winners 2022 - Lecturer of many conferences			



Academic and Professional Experience (Continued)

December 2017-March 2019	Researcher, Instructor, Construction and Project Management Consultant	Self-Employed	Tehran/Iran
The work was classified into three categories, namely: (1) Researching, (2) Training, and (3) Consulting. The services were provided for Project-Based Organizations (PBOs) or individuals who deal with projects or project concepts. The services helped Owners, Architects/Designers, General Contractors, Specialty Contractors, Industrial and Corporate Companies, and other Project-Based Organizations (PBOs): (1) to optimize their procedures to increase productivity, decrease cost, and achieve higher profit; (2) to provide optimum solutions based on their needs. Research and training services are also provided for Educators, Researchers, Project Managers, Construction Managers, and those who deal with projects and project concepts. The services helped these individuals to gain required knowledge to promote themselves in their professions and solve their problems on their own.			
December 2017-March 2019	Advisor to CEO	Paran Beton LLC	Tehran/Iran
- Advising on economic decision, cost control, and financial management. - Advising on how to improve and optimize the procedures to reduce costs. - Advising on how to utilize revenue growth with investing in the future. - Advising on new technology and new machinery.			
January 2016-August 2017	Teaching Assistant	Illinois Tech	Chicago/USA
Teaching Assistant in the courses: (1) Construction Methods and Cost Estimating, (2) Legal Issues in Civil Engineering, and (3) Construction Cost Accounting and Control.			
August 2014-November 2017	Research Assistant	Illinois Tech	Chicago/USA
- Conducted a research about project scheduling optimization by integrating time-cost tradeoff analysis and financing optimization considering cash flow forecast that resulted in proposing 5 different models and many international publications. - Conducted an investigation of the duties and responsibilities of Construction Managers during the life cycle of a construction project. The study conducted under the direction and supervision of the ASCE Committee on Management Practices in Construction (MPIC). The data were gathered from top 2,200 construction companies ranked by ENR. The data were analyzed by statistical analysis. The paper published by ASCE and the results presented in a conference in the United States in Texas. More papers are also being published in international journals. This project was a joint project supported and funded by the ASCE Construction Institute and the CMAA (Construction Management Association of America).			
July 2012-December 2013	Engineering Program Manager	Paran Beton LLC	Tehran/Iran
- Designed strategic and action plans in terms of production, productivity, quality, and customer-service. - Analyzed project portfolio management using economic decision analysis to make sure the company selects the profitable project portfolio. - Prepared financial program by forecasting requirements and annual budget for strategic plans.			

Academic and Professional Experience (Continued)

- Calculated economic life of all equipment in the company and replaced uneconomical equipment based on economic analysis resulted in saving of \$25,000 in a year.
- Used a method of economic comparison for alternatives of purchasing raw materials to replace uneconomical alternatives with economical ones resulted in saving of \$85,000 in a year.
- Developed cost accounting system to find big portion of costs resulted in saving of \$45,000 in a year by eliminating non-value added activities.
- Prepared documentations and monthly management updates.
- Led regularly scheduled team meeting to identify trends and determine improvements for the strategic plans.
- Developed the interface management strategy for the company and multiple, concurrent projects.
- Performed problem solving method using A3 report to provide as the lessons learned to the company.
- Designed and executed quality management system (ISO 9001:2008) and 5S.

September 2010-June 2012	Technical Manager	Paran Beton LLC	Tehran/Iran
• Prepared and reviewed contract's documents and reports (Cost, Time, Quality and Scope Report). • Planned events and scheduled activities, in addition to budgeting time and cost using MS Project Software. • Prepared job description for 35 workers; coordinated daily activities; inspected quality and safety in the job site. • Created documentation and reporting system to update the plans by monitoring actual work (Internal Schedule) • Analyzed qualitative risks, risk response, and risk control system.			
June 2007-September 2007 June 2006-September 2006	Assistant Quality Manager	Paran Beton LLC	Tehran/Iran
• Assisted the manager to design the process of quality control for the production line. • Assisted the manager to design and perform the quality management system (ISO 9001:2008). • Inspected the production line for quality check.			

Publications (in English)

- Arditi, D., Alavipour, S. M. R., and the Committee on Management Practices in Construction (ASCE Construction Institute), (2019). "Trends in expectations about duties and responsibilities of construction managers." *Journal of Construction Engineering and Management*, 145(7), 04019037(ISI Journal Paper (Q1)/**Published**).
 - This paper made the list of "Top-Downloaded" papers in the JI of CEM in July and was selected "Editor's Choice" in July:

https://ascelibrary.org/jcemd4/co_editors_choice_collection
- Alavipour, S. M. R. and Arditi, D. (2018). "Maximizing expected contractor profit using an integrated model." *Engineering, Construction and Architectural Management*, 26(1), 118138- (ISI Journal Paper (Q1)/**Published**).
- Alavipour, S. M. R. and Arditi, D. (2019). "Time-cost tradeoff analysis with minimized project financing cost." *Automation in Construction*, 98, 110121- (ISI Journal Paper (Q1)/**Published**).
- Alavipour, S. M. R. and Arditi, D. (2018). "Impact of contractor's optimized financing cost on project bid price." *International Journal of Project Management*, 36(5), 808818- (ISI Journal Paper (Q1)/**Published**).

Publications (in English) (Continued)

- Alavipour, S. M. R. and Arditi, D. (2018). "Optimizing financing cost in construction projects with fixed project duration." *Journal of Construction Engineering and Management*, 144(4), 04018012 (ISI Journal Paper (Q1)/**Published**).
- Arditi, D. and Alavipour, S. M. R. (2018). "Expectations about the duties and responsibilities of construction managers." *CI Summit, A Conference of the Construction Institute of ASCE*, Fort Worth, Texas, USA, (Conference Paper/ **Published**)
- Alavipour, S. M. R. and Arditi, D. (2018). "Optimizing financing cost using a line-of-credit and a long-term loan." *13th International Project Management Conference*, Tehran, Iran, (Conference Paper/**Presented and Published**).
- Alavipour, S. M. R. (2017). *Project scheduling using optimized financing*, Illinois Institute of Technology, Chicago, Illinois, USA, (PhD Dissertation/**Published**).
- Veiskarami, M., Ghorbani, A., and Alavipour, M. (2012). "Development of a constitutive model for rockfills and similar granular materials based on the disturbed state concept." *Frontiers of Structural and Civil Engineering*, 6(4), 365378-, (ISI Journal Paper (Q1)/**Published**).
- Veiskarami, M., Ghorbani, A., and Alavipour, M. (2012). "Application of the disturbed state concept in evaluation of a developed elasto-plastic constitutive model for rockfills." *Proceedings of V-th International Geomechanics Conference*, Varna, Bulgaria, pp. 6574-, (Conference Paper/**Presented and Published**).

(See [Google Scholar](#) for more info)

Publications (in Farsi)

- Alavipour, S. M. R. (2026), [A Professional Framework for Legal Analysis and Reasoning in Construction Projects](#)
- Alavipour, S. M. R. and Moradmand, I. (2025), [Adjustment/Escalation Management in Construction Projects, ACEMI](#)
- Alavipour, S. M. R. and Moradmand, I. (2025), [Change Management based on DBB contracts, ACEMI](#)
- Alavipour, S. M. R. and Moradmand, I. (2025), [Recovery Schedule Checklist, ACEMI](#)
- Alavipour, S. M. R. and Moradmand, I. (2025), [Updated Schedule Checklist, ACEMI](#)
- Alavipour, S. M. R. and Moradmand, I. (2025), [As-Planned/Baseline Schedule Checklist, ACEMI](#)
- Alavipour, S. M. R. (2024), [Iranian Construction Management Standards of Practice, ACEMI](#).
- Alavipour, S. M. R., et al. (2022), [Delay and Disruption Protocol \(Translated book\), Dadgostar.](#)
- Ghorbani, A., Veiskarami, M., and Alavipour, S. M. R. (2015). "Investigation of geomechanical properties of coarse aggregates considering stress levels." *Sharif Journal of Civil Engineering*, 31(2.2), 109119-, (Journal Paper/**Published**).
- Alavipour, S. M. R. (2013). *The effect of shape, type and aggregation distribution on geomechanical properties of granular materials considering stress level*, University of Guilan, Rasht, Iran, (Master Thesis/**Published**).
- Alavipour, M., Veiskarami, M., and Ghorbani, A. (2011). "The effect of shape, type and aggregation distribution on geomechanical properties of granular materials considering stress level." *The Congress of Research Week*, University of Guilan, Rasht, Iran, (Conference Paper/**Presented**).



Reviewed Papers

- ASCE Journal of Construction Engineering and Management
- Engineering, Construction and Architectural Management
- Journal of Civil Engineering and Management
- ASCE Journal of Computing in Civil Engineering
- KSCE Journal of Civil Engineering
- IEEE Access
- Iranian Journal of Science and Technology, Transactions of Civil Engineering
- International Journal of Real Estate Studies (INTREST)
- International Transactions in Operational Research
- Journal of Advances in Civil Engineering
- Journal of Engineering
- Australian Journal of Civil Engineering
- International Journal of Advanced Robotics and Automation
- Journal of Construction
- Journal of Public Procurement

(See [Publons](#) for more info)

Funded Projects

- Trends in expectations about the duties and responsibilities of construction managers supported by financial support (\$10,000) of ASCE Committee on Management Practices in Construction (MPIC) and Construction Management Association of America (CMAA).

Honors and Awards

- [CMAA Authorized Trainer](#)
- [ASCE 2021 Outstanding Reviewer \(Journal of Construction Engineering and Management\)](#)
- [Journal of Public Procurement Literati Award Winners 2022](#)
- The paper of «Trends in Expectations about Duties and Responsibilities of Construction Managers» made the list of “Top-Downloaded” papers in the JI of CEM in July and was selected “Editor’s Choice” in July:
https://ascelibrary.org/jcemd4/co_editors_choice_collection
- Recognized as an Iran’s Elite National Talent by Iran’s National Elites Foundation Acknowledged as the best researcher during the Congress of Research Week at the University of Guilan for presenting the paper of “the effect of shape, type and aggregation distribution on geomechanical properties of granular materials considering stress level” (2011).
- Qualified in the first round of the National Mathematics Olympiads (2006).
- The member of International Construction Law Conference Committee (2020 & 2022).
- The referee of 1st National Construction Law Competition (2022).



Lectures

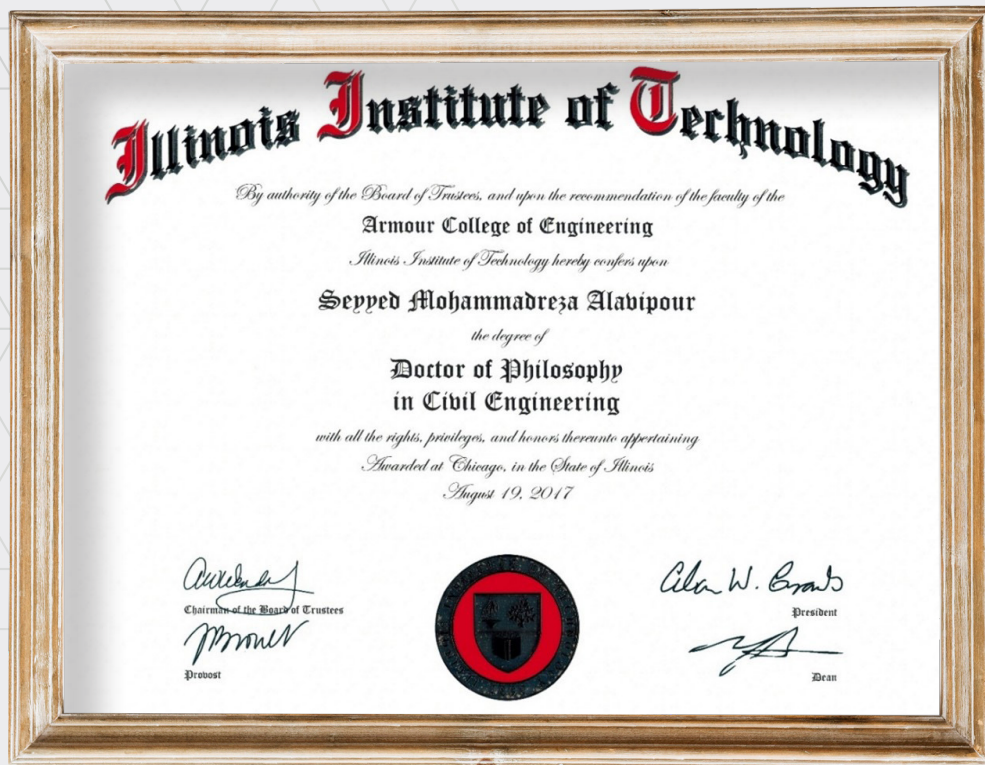
• 14th International Congress on Civil Engineering	2025
• International Construction Management Symposium (ICMS) (2 nd)	2024
• International Construction Management Symposium (ICMS) (1 st)	2023
• Project Management Institute in Germany	2023
• International Conference on BIM (2 nd , 3 rd , 4 th , and 5 th)	2019 - 2023
• International Project Management Conference (14 th , 15 th , 16 th , and 17 th) (Tehran, Iran)	2019 - 2023
• International Construction Law Conference (1 st & 2 nd) (Tehran, Iran)	2020 & 2022
• ASCE/CI Summit (Fort Worth, Texas, USA)	2018

Memberships

• Member of CMAA (Construction Management Association of America)	September 2014 - Present
• Member of IPMA (International Project Management Association)	December 2017 - 2019
• Member of IEAA (Iran Educational Administration Association)	December 2017 - 2019
• Member of PMI (Project Management Institute)	April 2016 - 2018
• Member of IRCEO (Iran Construction Engineering Organization)	November 2013 - 2015

References

David Arditi (USA)	Professor of Construction Engineering and Management	arditi@iit.edu
Jamshid Mohammadi (USA)	Professor of Civil and Architectural Engineering	mohammadi@iit.edu
Raymond Lemming (USA)	Adjunct Professor of Law, MBA, and Construction Engineering and Management	rlemming@iit.edu
Ricky Cooper (USA)	Assistant Professor of Finance	rcooper3@stuart.iit.edu
Mehdi Veiskarami (Iran)	Associate Professor of Civil and Environmental Engineering	mkarami@gmail.com



Doctor of Philosophy (Ph.D.) from Illinois Institute of Technology (Illinois Tech), USA



CMAA Authorized Trainer from the Construction Management Association of America (CMAA)



Outstanding Reviewer Award – ASCE Journal



Project Management Professional (PMP®) Certification from the Project Management Institute (PMI)



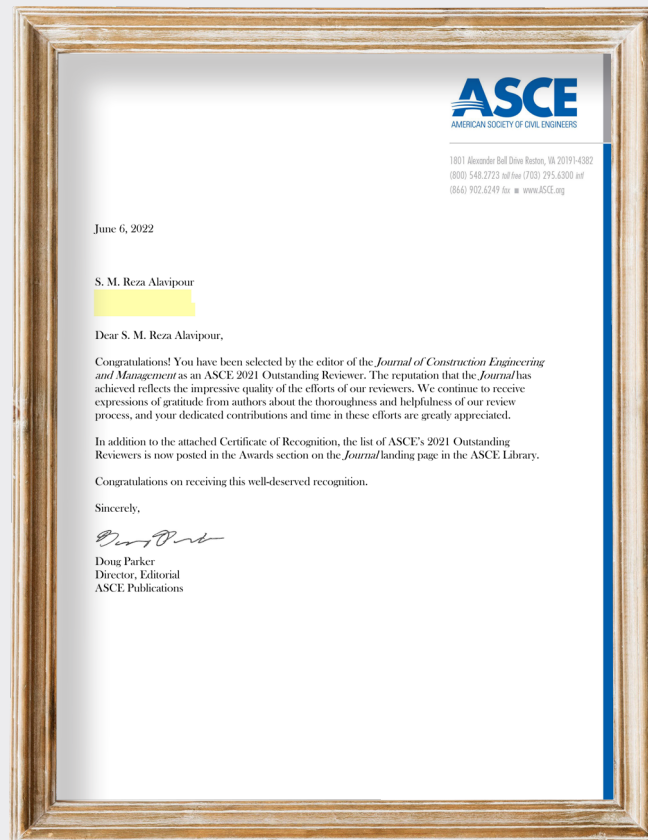
Certified Construction Manager-in-Training (CMIT) from the Construction Management Association (CM)



Certified Construction Manager-in-Training (CMIT) from the Construction Management Association (CM)



Outstanding Reviewer Award - Journal of Public Procurement



Formal Letter of Recognition as Outstanding Reviewer - ASCE Journal



Recommendation Letter for S. M. Reza Alavipour

Due 1APR17

11MAR17

Dear Members of the Scholarship Committee,

It is only the highest and strongest recommendation that I can give for Reza Alavipour for this scholarship. I have had the privilege of having him as my Teaching Assistant for 2 years now and can say he has been the best in my 25 year teaching career. While all our PhD students are highly intelligent, Reza has a laser like focus and insight on all facets of construction management. I attribute that to his being placed in charge of field operations at his father's concrete production and contracting company after completing his bachelor's degree in Civil Engineering. His experience in running crews and trades people gave him a tremendous knowledge and focused his desire to pursue his research. His PhD focus is on project financing options that will optimally improve project performance for Owners.

His research is most noteworthy in the depth of information he delves to and the prodigious quality written work product that he produces. It is a complement, but I jest with him that thank goodness for his human limitations or there would be little left to research when he finishes his PhD.

The award of this scholarship to Reza is an investment in our profession that will pay dividends over a long career. Reza will be mentoring and teaching construction management with the same intensity he has displayed as a student for many years to come. I highly recommend him for this scholarship.

Sincerely

Ray Lemming

Raymond M. Lemming
Cell 708-218-0000, Please call if you have any questions.

Highest Distinction Letter of Recommendation from Professor Raymond Lemming
Chair, Department of Construction Management
Illinois Institute of Technology (IIT), USA



David Arditi - 1st

Professor Emeritus at Illinois Institute of Technology
August 8, 2017, David managed S. M. Reza directly

Reza completed his PhD degree under my supervision. He graduated with a GPA of 4.0 out of 4.0. He excelled not only in course work but also in research work. Reza is inquisitive, creative, hardworking, resourceful, and quite diligent in everything he does. He is passionate about his work. He is reliable and trustworthy. Finally, he is a quick learner. Regardless of whether he chooses to have a career in industry or academia, I am confident that he will excel at whatever he does. He has my highest recommendation.

Highest Distinction Letter of Recommendation from Professor David Arditi



Raymond M Lemming, PE, JD - 1st

Director of Construction Programs at Illinois Institute of Technology
September 8, 2017, Raymond M managed S. M. Reza directly

Reza was my Teaching Assistant on 9 graduate courses over a period of 3 years. I have not had a better TA in 26 years. He facilitated my work in dozens of ways and his PhD work was most impressive. Excellent research and a prolific writer. He is a PhD that would excel as a professor, or anything else he wants to do. I would recommend him to anyone who is thinking of hiring him.

Highest Distinction Letter of Recommendation from Professor Raymond Lemming
Chair, Department of Construction Management
Illinois Institute of Technology (IIT), USA



2ND INTERNATIONAL CONSTRUCTION MANAGEMENT SYMPOSIUM 2022

Contact Information

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