Amin Ghafooripour, Ph.D., PE, M.ASCE, M.SEI, M.ASEE, M.SEAONC, M.ACI, M.AWC, M.AISC

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PROFILE

Dr. Amin Ghafooripour is an educator with 25 years of experience in the United States, United Kingdom, UAE, and Iran, with an evaluation score of 4.7-4.9/5 at SJSU. A successful multidisciplinary engineering professional engineer and team leader, experienced in teaching general engineering, received ten awards on interdisciplinary robotic projects. He was awarded as the **Outstanding Career Influencer for 2020-2021** at SCU! He has educated students from the early childhood years through university graduate levels. He is well-versed in teaching; engaging lecturer and instructor with the experience of teaching diverse students of various ethnicities, nationalities, ability levels, and learning styles; having instructed students from over 35 different nationalities. Possesses instruction/teaching, relationship building, and mentoring skills, with an academic background in Structural Engineering and Dynamics/Earthquake Engineering. Experienced in guiding multidisciplinary research projects, mentoring, instructing undergraduate, graduate, and professional students, and teaching courses in various structural/civil engineering topics. Experienced and award winner in doing and guiding research projects and grants and possesses exceptional Research & development in interdisciplinary and applied research projects with innovative solutions. Expert in using technology and advanced pedagogic methods in teaching to motivate freshmen and maximize the students' engagement.

- **Instruction:** Employs exceptional written and verbal communication skills to offer courses across learning environments, including lecture halls, hybrid courses, labs, and virtual classrooms.
- **Student Leadership:** Ensures that graduating students possess adequate engineering capabilities by monitoring and advising students in the completion of the semester, terminal projects, and dissertations.
- **Assessment:** Accurately determines whether students are ready to move to the next level of instruction by differentiated conduction assessments, including tests, projects, and discussions.
- **University Involvement** Plays an active role in the academic community by leading guest lectures, coordinating events, serving on different committees, program accreditation, new program development, and contributing to department development.
- **Research:** Advances industry through robust academic Research, writing proposals, grant management, and conducting research projects.

EDUCATION

- **Ph.D., Civil Engineering (Structure)**, 2002, I. Azad University, Iran, Evaluated and verified as awarded by Regionally Accredited Institution of Higher Education in the United States of America (#CA1403231).
  Dissertation Title: *Vibration-Based System Identification of Offshore Structures.*

- **M.Sc., Structural Engineering**, 1994, Tabriz University, Iran, Evaluated and verified as awarded by Regionally Accredited Institution of Higher Education in the United States of America (#CA1403231).
  Dissertation Title: Nonlinear Dynamic Analysis of pile-soil-water interaction in Jetties.

- **B.Sc., Civil Engineering**, 1991, K. N. Toosi University of Technology, Iran, Evaluated and verified as awarded by Regionally Accredited Institution of Higher Education in the United States of America (#CA1403231).
  Dissertation Title: The effect of the earthquake on Buildings, Case study: Manjil Earthquake-1991.

Current Appointments

San Jose State UNIVERSITY, SCHOOL OF ENGINEERING, San Jose, CA
Lecturer (Level C= Associate Professor/Professor) of Structural Engineering and Vibrations, 2019-present
Courses: Structural Engineering for graduate and undergraduate students.
Earthquake Engineering, Timber Structures, Structural Analysis, Mechanics of Material, Statics, and Geotechnical Engineering, with the latest course evaluation between 4.7 to 4.9/5 which is higher than the University average.
Giving consultancy to mechanical engineering students on their robotic/automobile teams as an interdisciplinary consultancy. (Formerly, I was a Robotic and car design club coach.)
Teaching some classes that a pool of multidisciplinary students attends my classes (Civil, Chemical, mechanical, electrical, and bioengineering.)

Research:
- Interdisciplinary Research on Corrosion protection using an induced current method for residential and small reinforced concrete structures. (Interdisciplinary between, Structural/mechanical engineering, Electrical engineering, and Material engineering.)
- Conducted many interdisciplinary Research; see the portfolio in the links below:
- https://www.researchgate.net/profile/Amin_Ghafooripour
- https://orcid.org/0000-0002-4694-1207

SANTA CLARA UNIVERSITY, SCHOOL OF ENGINEERING, Santa Clara, CA
Adjunct Lecturer (AYAL) of Structural Engineering, 2018-2023
Courses: Structural Engineering for graduate and undergraduate students.
Statics, Mechanics of Material, Mechanics of Material Lab, Mechanics of Material B, Steel Structure 2, Timber structures, Reinforced Concrete Lab, Geotechnical Engineering Lab (Foundation Design)
Teaching some classes that a pool of multidisciplinary students attends my classes (Civil and mechanical engineering.)
https://www.scu.edu/engineering/faculty/ghafooripour-amin/

PADIR CONSULTING ENGINEERS, San Jose, CA
President and Lead Engineer, 2016-Present (www.Padir.US)
Successfully coordinated, managed, and delivered diverse infrastructure, building, and industrial projects.
Managing a team of multidisciplinary engineers to produce project deliverables, including architectural, structural, mechanical, electrical, and energy design reports. Well-experienced in working as a manager/president of a multidisciplinary team.
- A portfolio of projects is available at https://www.linkedin.com/in/aminghafooripour/

Ingeoexpert Online Technical Training Company, Spain
Professor, 2020-2022
Courses: Earthquake Engineering/ Structural Engineering courses for professional, short term courses.
https://ingeoexpert.com/en/courses-online/earthquake-engineering/

American Society of Civil Engineers (ASCE) San Jose YMF, San Jose, CA
Lecturer-PE Exam Preparation Courses for the Professional Engineers-2019-Present (only during the exam season)
Teaching PE Exam Preparation Courses in the Area of:
1- Structural Engineering
2- Construction
https://www.sjymf.org/course-instructors.html
https://www.sjymf.org/

FORTRESS STRUCTURAL ENGINEERING INC., San Jose, CA
Sr. Civil Engineer and Project Manager, 2016-Present
Successfully designed and delivered diverse infrastructure, building, and industrial projects by supplying numerous structural deliverables, including structural conceptual designs, basic design reports, detailed design reports, drafting, calculation notes, specifications, periodic reports of projects, cost-benefit analyzes, budget analyses, and peer-reviewed documents.
- Delivered nonstructural seismic design for industrial projects.
- Designed shoring and reshoring projects.
- Design of industrial and commercial structures.
- Design of residential buildings.

Previous Appointments

BASIS INDEPENDENT SILICON VALLEY, SAN JOSE, CA
Academic Faculty, Engineering, 2014 – 2017
Courses: Precollege and postsecondary teaching experience in a STEM and Engineering Education discipline; experience in teaching Integrative Engineering Education courses; experience in implementing technological/engineering design-based pedagogy; demonstrated capacity for interdisciplinary practices and collaborations; strong evidence of effective teaching, Research, scholarship, and outreach; experience with externally-funded projects; demonstrated collaboration across Engineering education disciplines; experience in the design, delivery, and assessment of Web-based distance education.
Engineering courses include an interdisciplinary curriculum and AutoCAD, Revit, and Inventor software. Developed the interdisciplinary engineering courses curriculum for the school. Used robotic technology, programming, and modern handy microprocessors for teaching civil and mechanical engineering concepts and interdisciplinary areas such as smart structures, control of systems, earthquake simulation on the shaking table, vibration measurement and active control, and passive control to teach younger students. Leader for a start and expand the new robotic clubs and car builders' club to generate more revenue for the school and to help to be the pre-college engineering center for the San Jose area. Leader and developer of the engineering labs and shops at school. Member of the Academic Board for the course accreditation process from UC for the Engineering courses and Pre-Calculus. Lead and chairman of the Inventors and Engineers annual convention at BASIS network (17 campuses in the country). My students got ten awards for different activities last year. Introduced the concept of using VEX/Lego robotic systems for the shaking table and active control in the Maker Faire (2016) and published in the Civil Engineering Magazine (May 2017).
Research:
- Evaluation of the effectiveness of the interdisciplinary pre-college engineering program vs. traditional engineering programs.
- Directed students to create and invent new projects. One project is now in the process for getting the patent.

EITEXPERTS, SAN JOSE, CA
Academic Faculty, 2014-2016 (Part-time)
Structural Engineering lecturer, curriculum designer, and course developer for SE/PE/FE NCEES and State exams, 2015 – Present
Courses: Construction, Structural Engineering, and Earthquake Engineering courses (listed in the courses taught)
- Continuing education course writer with special topics such as system identification for bridges, offshore structures, bridge engineering, and regular topics like steel, RC, and PC structures.
- Prepared lectures and developed courses for each topic in the PE/SE exams.
- Used real-life examples from my broad experiences to develop the lectures to give a deep knowledge of the applicants beyond the exam expectations to have a better engagement with the course and use the course contents for their projects.

FRED T. SMITH & ASSOCIATES, INC., Oakland, CA
Supervising Engineer, 2013-2014
Ensured the success of multiple Bay Area projects by providing both team leadership and engineering support, ensuring that each project fulfills the City of Oakland and California Building Codes.
- Cut costs by proposing the use of shipping containers for available and affordable housing and conducting supplementary design reports and studies for this initiative.

HERIOT-WATT UNIVERSITY, SCHOOL OF THE BUILT ENVIRONMENT, Edinburgh, UK (Dubai Campus)
Assistant Professor of Structural Engineering, 2011-2013
Courses: Structural and Architectural Engineering for graduate and undergraduate students. (Listed in the courses taught)
Research:
- Base isolation (comparison between HDRB and LRB) for industry use (by client's order). The suggested threshold for using each system. Published in Kanagawa University- Yokohama, Japan
- Verification of real deflections (results from full-scale tests) of post tension slab with Safe software. The proposed new coefficient for slab design while using SAFE software. Submitted to Heriot-Watt University.
- Evaluation of response modification factor based on the performance of a new type of pre-cast concrete connection (FEMA-ACI, AISC codes). Proposed modifiers and ductility level for this kind of connection. Published in SMIRT22- Aug. 2013, San Francisco USA.
Student Leadership: Supervised Ph.D./Master of Science dissertation and design projects.

I. AZAD UNIVERSITY (IAU), DEPT. OF ARCHITECTURAL AND CIVIL ENGINEERING, Dubai, UAE
Adjunct professor, 2010-2013
Courses: Structural & Architectural engineering courses for undergraduate & postgraduate students, including Master of Science dissertations. (Listed in the courses taught)
Student Leadership: Supervised MSc dissertation and design projects for both architectural and structural engineering students and served as the structural advisor of architectural engineering workshops.

I. AZAD UNIVERSITY (IAU), DEPARTMENT OF CIVIL ENGINEERING, Tehran, Iran
Associate Professor of Structural Engineering, 1995-2011
Courses: Structural engineering courses for undergraduate & postgraduate students, including Master of Science dissertations. (Listed in the courses taught)
Research: Conducted several granted research projects using experimental and numerical approaches. Conducted several full-scale tests on the real buildings. Outstanding achievements by leading the research teams for developing new products or procedures for different industries and manufacturers.
Leadership positions between 1995 and 2011:
- Vice Chancellor/provost
- Associate dean of Research
- Associate dean of academic programs
- Head/Chair of the department
- Director of research affairs.

PARS PADIR CONSULTING ENGINEERS, Iran
CEO and Lead Engineer, 1994-2011
Successfully designed and delivered diverse infrastructure, building, marine, bridge, and industrial projects by supplying numerous structural deliverables, including structural conceptual designs, basic design reports, detail design reports, drafting, calculation-notes, and specifications, periodic reports of projects, cost-benefit analyzes, budget analyzes, and peer-reviewed documents.
- Delivered more than 150 building projects with a combined area of 5500K ft2, including 11 bridges, and 21 marine and offshore structures.
- A portfolio of projects is available at www.linkedin.com/pub/amin-ghafooripour-ph-d-eit/75/724/441/.

IRANIAN PROFESSIONAL ENGINEERS ORGANIZATION, Iran
Adjunct Lecturer, 2008-2009
Courses: ADAPT software for post tension structures.

I. AZAD UNIVERSITY (IAU), Arak, Iran
Adjunct professor, 2002-2007
Courses: Soil dynamic, Marine and offshore structures, and continuum mechanics.

MINISTRY OF ROADS AND TRANSPORTATION, Iran
Adjunct Lecturer, 2005-2007
Courses: Dynamics of structures, Retrofit, seismic rehabilitation, and road and retaining structures.

Undergraduate Courses Taught

- *Statics.*
- *Dynamics*
- *Mechanics of materials (strength of materials).*
- *Design studies B, Loading on structures and design process (IBC, ASCE7, EC1&8).*
- *Indeterminate structures 1 and 2.*
- *Structural steel design (1&2) and its project (AISC (LRFD & ASD) and EC3 codes).*
- *The design of reinforced concrete structures and projects (1&2), (ACI and EC2 codes).*
- *Structural labs for indeterminate structures, plasticity, concrete & structures, material strength*
- *Reinforced Concrete Lab (ACI)*
- *Foundation Design (deep and shallow foundations)*
- *Design studies-A, construction technologies, structural systems, and loading on structures for both civil engineering and architecture students (IBC, ASCE7, EC1&8).*
- *Repair, Retrofit, and strengthen existing buildings.*
- *Civil engineering project, a multi-discipline project for civil engineers to learn about the different requirements for project design, supervision, and management.*
- *Interdisciplinary Engineering and Technology, the use of a robotic microprocessor to control the structures and mechanism, active and passive control, programming, smart structures, vibration control by robots.*
- *Introduction to civil engineering software (Auto Cad, Sap, Etabs, Adapt Pt, and Safe).*
- *Engineering drawing and drafting (Auto CAD, Revit, Inventor, and manual drafting).*
- *Professional drafting and structural/architectural detailing (Auto CAD and Manual).*
- Geotechnical Engineering

Graduate Courses Taught:

- *Dynamics of Structures (Vibrations)*
- *System Identification and Damage detection of the structures.*
- *Experimental modal analysis of structures.*
- *Earthquake Engineering (ASCE7, IBC, and EC8).*
- *Random Vibrations.*
- *Risk, Safety, and Reliability.*
- *Seismic design of structures (AISC-ACI, IBC, ASCE7, and EC8).*
- *Finite element method.*
- *Indeterminate structures, plastic and elastic analysis of plates and slabs.*
- *Continuum mechanic (Elastic and Plastic).*
- *Heavy retaining and road structures.*
- *Plastic analysis and design.*
- *Soil dynamics.*
- *Design of structures for the explosion.*
- *Deep foundation design (Piers, piles, helical piles)*
- *Pile-Soil-Water interaction.*
- *The design of bridges (AASHTO code).*
- *The design of pre-stressed concrete (ACI and EC (BS) codes).*
- *The seminar; a course for MSc students about research methodology.*
- *The design of marine and offshore structures (API code).*

- *Advanced Steel structures.*
- *Advanced Concrete Structures.*
- *Timber/wood structures*
- *Advanced building technology for architects.*
- *Advanced structural systems for architects.*
- *Advanced bridge engineering (AASHTO).*
- *Seismic design of structures through forms for architects.*
- *Conducting more than 50 Master of Science dissertations.*

ACADEMIC LEADERSHIP

- **Keynote Speaker and Academic Jury**, Silicon Valley International Invention Festival, 2018-present (https://sviif.com/juries)
- **Chair of the Scientific committee,** 5th Conference on Orthotropic Bridges, San Francisco (http://www.5obc.org/scientific-committee/), 2018-2019
- **Director of Outreach program**, SEI (Structural engineering Institute) 2017 -present
- **Academic Mentor**, American Society of Civil Engineers, 2016-present
- **Academic Mentor**, Heriot-Watt University, UK, (Dubai campus) 9/2011-9/2013
- **Associate Dean of Engineering Faculty**, IAU, Tehran, 2005-2006
- **Head of Civil Engineering Department**, IAU, Arak Campus, 2003- 2004
- **Dean of Research, IAU, Tehran**, 2001-2002
- **Vice Chancellor (Engineering Advisor)**, IAU, Tehran, 2000-2001
- **Dean of academic programs,** IAU, Tehran, 1999-2000
- **Director of Research Affairs,** IAU, Tehran, 1998-1999

INVENTIONS/PATENTS

- VBIM-Vibration Based Inspection Method of structures using system identification methods.
- Roller-Shock Restrained Structural Connection for free thermal expansion and restrained connection during earthquake vibrations.
- Exhaust door system for missile repair workshops (designed for internal explosion).
- New modules of Polystyrene Building Blocks for ICF (Insulated Concrete Forming) technology.
- Patent Pending: Mini whiteboard cleaner system. This project was developed by one of my school students and conducted by me (2016).

ACADEMIC HONORS AND AWARDS

- **Certification of Job Excellence-** Bridge Magazine, China, 2020
- **Certification of Job Excellence-** 5th Orthotropic Bridge Conference, Santa Clara-2019
- **VIP and Festival Advisor**, Silicon Valley International Invention Festival, 2018-present (https://sviif.com/juries & https://sviif.com/about)
- **Merit Badge Counselor**, Boys Scouts of America (BSA), 2018
- **The Best performance Subject Expert Lecturer award,** Basis Independent Silicon Valley, CA, USA, 2014-15
- **Under my leadership,** my students received ten awards for Robotic and engineering projects. Basis Independent Silicon Valley, CA, USA, 2015-17
- **Peer Reviewer of the ASEE** Annual Conferences, New Orleans, April 2016
- **Peer Reviewer**, "Journal of Engineering and Technology," Scientific Research, USA (DE), 2014-Present
- **Job Quality Certification for Academic Excellence**, Heriot-Watt University, UK, 2013
- **Peer Reviewer**, "Journal of Measurement," Elsevier, Philadelphia, PA, USA, 2011-2012
- **Peer Reviewer**, "Techno-Press International Journals," South Korea, 2011-2012
- **Peer Reviewer**, "Techno-Press International Journals," South Korea, 2011-2012
- **Peer Reviewer**, "RAS Publishers, RAS engineering and Technology," USA, 2020-Present, http://www.raspublishers.com/board-members?id=5
- **The Best Researcher of the Year,** I. Azad University, Iran, 2009

- **Several Awards for Teaching, Research & Academic Management,** I. Azad University, Iran, 1997, 1998, 2002, 2006, and 2009.

ENGINEERING HONORS & AWARDS

- **Outstanding Career Influencer for 2020-2021,** Santa Clara University
- **Recognition for the job Excellence-2019**, Structural Engineering Institute, Sam Francisco Chapter
- **Certification of Job Excellence – Seismic Rehabilitation**, Royal Danish Government, Denmark, 2012
- **Certification of Job Excellence for Professional Structural Design & International Knowledge**, Ministry of Foreign Affairs, Netherlands, 2009
- **Job Quality and Partnership Certification**, Aquacom Company (offshore job), Australia, 2008
- **Job Quality Certification for Offshore Structural Design,** UK – Norway, 2006
- **Gratitude Letters for Quality in Design of Buildings, Bridges, Marine, & Offshore Projects,** Iran, 1997-2005

RESEARCH GRANTS

- **System Identification and Health Monitoring of Bridges**, Granted by Ministry of Road and Transportation, Iran, 2005.
- **Investigation for ICF (Insulating Concrete Forming) Production Improvement**, Granted by Denver Construction Group (DCG), Iran, 2008.
- **Product Improvement for Ercolith System**, Granted by Keysan Tejarat Co., Iran, 2009. The design guideline for using this newly invented structural system in high seismic-risk areas was published in 2015.
- **New Seismic Resistive Pre-Fabricated Concrete Structure Connection**, Granted by Iran Frame Co., Iran, 2010.
- **Investigation on Seismic Vulnerability and Upgrading of the Ground Water Reservoir and Elevated Water Tanks**, 2011-2012, Iran water organization.

TRAINING & CERTIFICATION

- **Professional Engineering License (PE)**, California Board of Engineering, 2015
- **Applied for the SE License,** California Board of Engineering, Approved by the Board for the exam
- **NCEES approved the record for applying for the PE at any other State.**
- **Boys Scout of America**, Registered Engineering, Science, and Robotic Merit Badge Counselor#131418128
- **CBEST Certification**, California Basic Educational Skills, Test ID#: 41652370, 2014
- **Cyber Security Training,** Santa Clara University, 2020
- **Cyber Security Training,** San Joses State University, 2023
- **Diversity and discrimination training**, San Joses State University, 2023
- **Sexual Harassment training,** San Joses State University, 2023
- **Multiple choice question design training**, BASIS ed. Arizona, 2016
- **Authorized intervention specialist**, (sub. Teacher) OUSD, California, #025191, 2014
- **Certified Adult and Pediatric First Aid/CPR/AED,** Health Safety Institute (HSI) # 2472367
- **Mandated reporter training,** Santa Clara County Social Service Agency, CA, 2015
- **Youth protection training**, Boys Scouts of America, 2018
- **Licensed Life and Health Insurance Agent**, State of CA Dept. of Insurance, License # 1675306, 2014
- **Training courses: "Academic Practice," UK**, Heriot-Watt University, 2013.
- **Certification for Legal Development in Construction Engineering and Arbitration**, Chartered ICES, American University of Dubai, UAE, 2013
- **Quality Certification for Academic Excellence,** Heriot-Watt University, UK, 2013.
- **Certifications for HSE Courses** (Fire Rite, Feel Rite, Office Health & Safety Awareness, Assess Rite), Heriot-Watt University, UK, 2012
- **Certification for the "Academic Curriculum Design" course**, I. Azad University, 2011
- **Certificate for "Sexual Harassment Prevention for Employees,"** California Department of Fair Employment and Housing

- **Scuba diving certification**, **OP1, UK,** PADI, 2009.
- **Adventure desert (dune) driving certificate**, Al-Ahli driving institute, UAE, 2013.

PROFESSIONAL AFFILIATIONS

- **Chairman of the Board,** ASCE/SEI (Structural Engineering Institute-San Francisco Chapter).
- **Member,** CFA, California Faculty Association
- **Member**, SEAONC, (Structural Engineers Association of Northern California).
- **Member**, SEAOC, (Structural Engineers Association of California).
- **Continuous Education Committee member**, SEAONC
- **Member,** ASCE, (American Society of Civil Engineers).
- **Member,** AISC (American Institute of Steel Construction).
- **Member,** ACI (American Concrete Institute).
- **Member,** ASEE, (American Society for Engineering Education).
- **Member,** AIAA, (American Institute of Aeronautics and Astronautics).
- **Member,** Engineers Without Border (EWB), ASCE
- **Member,** American Wood Council, AWC
- **Member,** United Inventors' Association of America (UIA)

VOLUNTEERISM and CIVIC ACTIVITIES

- **Chairman of the Board**, SEI (Structural engineering Institute) 2017 -present
- **NSF (National Science Foundation),** application reviewer, 2018-present
- **Church of all Faiths (Christian)**, Oakland, CA, Financial Secretary/Trustee/Fiduciary, October 2013–17
- **Church of all Faiths (Christian)**, Oakland, CA, Trustee, October 2020–Present
- **Editor of the Engineer of Record online newsletter,** SEI San Francisco Chapter, 2020-present
- **Chair of the Scientific committee,** 5th Conference on Orthotropic Bridges, San Francisco, 2018 & 2019
- **Boys Scout of America**, Registered Engineering, Science, and Robotic Merit Badge Counselor#131418128
- **Bethel Church (Christian)**, member, San Jose
- **Jury and keynote speaker at SVIIF (Silicon Valley International Invention Festival), Santa Clara, 2018-Present,** https://sviif.com/juries
- **Engineers Without Border, USA,** 2016-Present
- **ASCE Mentor,** 2016-Present
- **University of Scouting Lecturer**, 2016, 2019, 2020
- **Basis Independent Silicon Valley**, San Jose, CA, Organizer of the Inventors and Engineers Convention 2015.
- **Basis Independent Silicon Valley**, San Jose, CA, Organized paper bridge competition, Spaghetti building competition, 2014 & 2015.
- **Heriot-Watt University**, Dubai, Organized two spaghetti building competitions between high schools to market civil engineering, 2012-2013, https://www.youtube.com/watch?v=FYdmrg9QJ2Q.
- **British University of Dubai & Heriot Watt University,** France, Structural Engineering Advisor for the UAE team for Solar Decathlon Europe 2014, 2012-2013, http://teamuaesde2014.com/faculty.html.
- **I. Azad University**, Iran, Organized/Managed 12 annual conferences on civil engineering.

TECHNICAL MAIN AREAS OF STRUCTURAL ENGINEERING KNOWLEDGE AND EXPERTISE

- Dynamic analysis of structures and Seismic design
- Forced and ambient vibration tests, vibration-based damage detection
- System identification and signal processing, structural health monitoring
- Seismic rehabilitation of deficient structures
- Performance Based Design approaches (Pushover analysis)
- Dynamic analysis and design of offshore and steel marine structures

- Nonlinear mechanics of mathematics, materials, geometry
- Prestressed Wood Structures
- Construction technologies, materials, and advanced solutions
- Smart materials and structures
- Development of innovative structural systems
- Non-linear dynamic and static analysis and interaction problems
- Piling and pile – soil – water interaction problems
- Analysis and design of bridges
- Reinforced concrete and pre-stressed structures
- Behavior and design of steel structures. Bolted and welded connections

TECHNICAL & ENGINEERING SKILLS

- Engineering management of eighteen staff engineers, team coordination/leadership & marketing.
- Interdisciplinary Coordination of Projects (Architectural, Structural, Mechanical, and Electrical)
- Preparation of structural detail design, drafting, calculation note, project specification, periodic & basic design reports, budget analysis, and document peer review
- Innovation in structural system design
- Foundation/abutment, pile/pier shaft design considering soil–water interaction
- Nonlinear and dynamic analysis of structures and machine foundations.
- Structural design of buildings, bridges, and marine structures (conceptual structural design, cost-benefit analysis, basic and detail design reports and calculations, Steel, Concrete, and Prestressed structure: IBC-ASCE7-10-ACI 318-08-AISC [ASD &LRFD])
- Analysis and design of wood structures (NDS)
- Analysis and design/seismic design of bridges; conceptual design, cost-benefit analysis, basic and detail design reports and calculations, steel, concrete and pre-stressed Bridges (AASHTO code) and DOT.
- Bridge inspection, health monitoring, system identification, rehabilitation and seismic upgrading
- The design of bionic and exposed steel/concrete structures.
- Comprehensive knowledge of US and European design standards and codes.
- Structural seismic design and structural dynamics
- Structural rehabilitation/seismic upgrades based on FEMA for structural/nonstructural components
- Windows, MS Office (Word, Excel, PowerPoint, OneNote, Visio)
- CAD/Design Packages**:** STAAD-Pro, AutoCAD, SAP2000, ETABS 2000, SAFE2000, ANSYS (Some frame modules), ABAQUS (some modules), SACS (limited), RISA (limited)

Presentations & Publications

GUEST LECTURER & ORAL PRESENTATIONS (DOES NOT INCLUDE CONFERENCES)

- **Bridge Magazine,** Online Bridge Engineering Workshop, USA-China-Japan Workshop, July 16-17, 2020
- **Guest Lecturer**, Patten University, Oakland, CA, 2014
- **Guest Presenter – Monthly Seminar Series**, Structural Damage Management of Structures for the Effect of Earthquake, Institute of Structural Engineering (UK), Dubai Branch, 2012
- **Guest Lecturer,** Advanced Structural Systems, I. Azad University, Dubai branch, UAE, 2010
- **Introduction to Offshore Engineering**, I. Azad University, Tehran Branch, Iran, 2009
- **Organizer/Leader**, 12 yearly civil engineering conferences, I. Azad University – Tehran, Iran, 1998-2011

SELECTED PRESS/MEDIA

➢ **ASCE Civil Engineering Club Inspires San Jose Students' Imaginations, Structural Engineering Education, Sep. 2016.** http://news.asce.org/asce-civil-engineering-club-inspires-san-jose-students-imaginations/
➢ **Silicon Valley Invention Festival:** https://sviif.com/juries

- https://www.ifia.com/news/silicon-valley-international-invention-festival-2/
- **BASIS Independent Silicon Valley, Robotic VEX IQ team awarded by medal in the VEX World Championship.**
- http://blog.basisindependent.com/manhattan/the-american-society-of-civil-engineers-interviews-silicon-valley-engineering-teacher-0-0-0
- http://blog.basisindependent.com/manhattan/topic/extracurriculars ;
- http://blog.basisindependent.com/silicon-valley/basis-independent-silicon-valleys-vex-iq-robotics-team-takes-the-medal;
- https://www.facebook.com/BINSCA/photos/pcb.493715397466504/493714370799940/?type=3
- **ASCE-SJYMF-PE exam lecturer:** https://www.sjymf.org/course-instructors.html ;
- **SEAONC:** http://www.seaoc.org/member/Amin-Ghafooripour
- **AWC:** http://awc.site-ym.com/member/Amin-Ghafooripour
- **SEI:** http://asce-sf.org/branches-institutes-and-committees/sei/
- **ASCE:** http://asce-sf.org/awards/
- **SCU** https://www.scu.edu/engineering/faculty/ghafooripour-amin/
- **ZIPPIA** https://www.zippia.com/civil-structural-engineer-jobs/trends/
- **ASCE https://asce-sf.org/october-2019-5obc/**

- **Scholar references/Citations:**
- https://researchportal.hw.ac.uk/en/publications/damage-detection-in-jacket-type-offshore-platforms-using-modal-st
- https://books.google.com/books?id=0qZvAwAAQBAJ&pg=PA664&lpg=PA664&dq=amin+ghafooripour&source=bl&ots=XRkvmKXByy&sig=BzSlr67N_SQVZuZ4-B2fsdR2kcQ&hl=en&sa=X&ved=0ahUKEwjGkq-5zcTVAhXBllQKHYTsBpM4FBDoAQhHMAY#v=onepage&q=amin%20ghafooripour&f=false
- https://search.datacite.org/works/10.13140/2.1.4073.0247
- https://search.datacite.org/works/10.13140/2.1.2905.6645
- http://www.qjseg.ir/article_772.html
- http://civil.utm.my/ramlinazir/files/2015/07/Scopus-Journal-30-Mac-2015.pdf

- **News letters:**
- http://www.padir.us/sei/sei-sf-newsletter-volume-4-issue-1/
- https://www.scu.edu/engineering/alumni/five10-report/archives/november-2018-five10-report/
- https://parthiancity.com/
- https://drive.google.com/file/d/1V1Hqxu0an4ovDkvGZ-wEXzf9IdhsEQHo/view
- https://ia-cp.org/users-stories

PUBLICATIONS & CONFERENCE PRESENTATIONS

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