Curriculum Vitae

Name: Mohammad Amin Asareh (Assareh)
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Education:

PhD candidate (2009 - Present)
Department of Civil and Environmental Engineering, Missouri University of Science and Technology

Master of Science in Structural Engineering (2005-2008)
GPA: 17.73/20

Thesis Title: *"Nonlinear incremental dynamic analysis on fixed offshore jacket type platforms considering Soil-Pile-Structure interactions"*

Department of Civil and Environmental Engineering, Khajeh Nassir Toosi University of Technology (Tehran)

Bachelor's degree, Civil Engineering (2001-2005)
GPA: 15/20

Department of Civil and Environmental Engineering, Khajeh Nassir Toosi University of Technology

Work Experience:

Graduate Research Assistant in Missouri University of Science and Technology (2009)

Mehr Ab Pouyesh Consultant Engineering Company (Apr. 2007- Aug. 2009)
Head of Structural Engineering Department

Mahab Ghodss Consultant Engineering Company (sep.2004-Sep. 2006)
Producing the construction machinery codes and standards of Iran

Concrete Laboratory of Khajeh Nassir University for the ACI concrete competition (June 2004-Sep.2004)
Concrete Team which led to ACI (American Concrete Institute) Award

Research Institute of Forest and Rangeland (RIFR) (June 2002-Sep. 2002)
Site Engineer

Research Experience:

- Done three months of practical work in the concrete laboratory at Khajeh Nassir Toosi University of Technology of Tehran for ACI competition in 2004.
- Modeled and designed an intake plant for the steel factory complex in south of Iran with the finite element program of SAP2000 and OpenSees.
- Modeled an offshore platform considering soil-pile-structure interaction with Pushover and IDA (Incremental Dynamic Analysis) with OpenSees.
- Modeled the tower of Tehran (Milad Tower) with the height of 435m and done nonlinear dynamic analysis with OpenSees and Ansys and verification with both programs.
- Designed industrial buildings for the pumping station of Soome Dam in north-east of Iran.
- Modeled and designed an earth fill dam (A Tailing Dam) with 25m of height and 830m of length and volume of 12 million cubic meters for the Gol-e-Gohar hematite mining company with "FLAC".
- Expert in modeling and evaluating Soil -Structure Interaction and liquefaction effects.
- worked on effect of modeling assumptions regarding soil-structure-interaction and liquefaction to seismic fragility of Bridges.

- A case study on nonlinear dynamic behavior of Skew-Bridges from the recent Chile Earthquake
-Recently been working on modeling of offshore wind turbines

Publications:

Dissertation:

- Assareh M.A., 2008. Nonlinear Incremental Dynamic Analysis On fixed offshore Jacket Type Platforms Considering Soil-Pile-Structure Interactions. K.N. Toosi University of Technology.

Seminar:

- Assareh M.A., 2006. "Performance Based Design and the effects of soft soil on seismic demand of structures. K.N.Toosi University of Technology.

Papers:

- Assareh M.A. and Asgarian B. 2008. "Nonlinear Behavior of Single Piles in Jacket Type Offshore Platforms Using Incremental Dynamic Analysis". Published in American Journal of Applied Sciences. Vol. 5, No. 12, P: 1793-1803.

- Asgarian B., Aghakouchak A.A., Alanjari P. and Assareh M.A. 2008. "Incremental Dynamic Analysis of Jacket Type Offshore Platforms Considering Soil-Pile Interaction". Proceedings of the 14th world Conference of Earthquake Engineering. October 12-17, 2008, Beijing, China.

- Asgarian B., Assareh M.A. and Alanjari P. 2008. "Nonlinear behavior of single piles in jacket type offshore platforms". Proceedings of the 27th International Conference on Offshore Mechanics and Arctic Engineering. Estoril, Portugal.

Technical and Computer Skills:

- Auto CAD, 3D Studio, Microsoft Office
- Finite Element Programs ANSYS, Abaqus, SAP2000, ZEUS-NL, and OpenSEES.
- FAST design code for HAWTs
- Programming in Matlab
- Also worked with seismosignal, seismostruct, Nonlin, Cyclic1D, Drain3D, FlAC, ,ETABS, SAFE.

Honors and Awards:

- Participated in the Junior Certificate examination in Ireland with two honor grades.
- Winning Third Place, ACI International Student Concrete Competitions, San Francisco, 2004.
- Top Student Award, Master Degree, Khajeh Nassir University, 2007.
- Participated in producing the construction machinery codes and standards of Iran.

Research Interests:

- Numerical analysis
- Nonlinear Dynamic Analysis and Adaptive Pushover
- Offshore structures (Offshore Wind Turbines)
- Soil-Pile-Structure Interaction
- Performance Based Design