Seyed Mohammad Raza Emrani

Master of Science Student in Earthquake Engineering

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Education

Master of Science (M.Sc.) in Earthquake Engineering (upcoming) 2017-Present
Amirkabir University of Technology, Tehran, I.R.Iran
Thesis: Nonlinear Macro-Modeling of S-C Composite Walls
Advisors: Prof. Siamak Epackachi & Prof. Payam Tehrani

Bachelor of Science (B.Sc.) in Civil Engineering 2013-2017
Shahid Bahonar University of Kerman, Kerman, I.R.Iran
Final Project: Investigation on the Effects of Height, Thickness, and Grid Configuration in Barrel Space Truss Design (Case Study).
Advisor: Prof. Eysa Salajeghe
GPA 3.5/4.0

Professional Experience

Site Engineer 2016
Kerman Omran Pouya Contraction Co., Kerman, I.R.Iran
Construction supervisor of a Steel Structure (S. Bahonar Hospital)

Research Experience

Graduate Research Assistant 2017-Present
Amirkabir University Of Technology, Tehran, Iran
Proposing a Macro Model for Seismic Behavior of S-C Composite Walls and Validating it Using Available Experimental Test Data, under the supervision of Prof. Siamak Epackachi.

Bachelor Final Project 2016
Shahid Bahonar University of Kerman, Kerman, I.R.Iran
A Case Study on the Effects of Height, Thickness, and Grid Configuration in Barrel Space Truss Design , under the supervision of Prof. Eysa Salajeghe.

Graduate Courses

- Advanced Earthquake Engineering
- Dynamics of Structures
- Seismic Design of Structures
- Seismic Hazard Analysis
- Soil Dynamics
- Special Topics (Experimental Analysis of Structures)
- Structures Control

Graduate Course Projects

Dynamics of Structures Project, instructor: Prof. Mohsen TehraniZade
Linear Dynamic Analysis of a give Building under Ground Motion Records Using Our Own Code.

Advanced Earthquake Engineering Project, instructor: Prof. Mohsen TehraniZade
Nonlinear Dynamic Analysis of a give Building under Ground Motion Records, Generating Inelastic Spectrums, and Calculating Demand Parameters Using Our Own Code.

Seismic Hazard Analysis Project, instructor: Prof. Touraj Taghikhani
Explicit & Implicit Seismic Hazard Analysis for Tabriz City.

Seismic Design of Structures, instructor: Prof. AliReza Rahai
Design Two High-Rise Building using Special Lateral Resisting Sys.

Structures Control Project, instructor: Prof. Touraj Taghikhani
Retrofitting a Designed Building by means of Structure Control Methods.

Undergraduate Course Projects

Matrix Analysis and Finite Element Method, instructor: Prof. Saeed Shojaee
Steel and Concrete Design Project, instructor: Prof. Eysa Salajeghe

Computer Skills

Engineering Programs:
SAP, ETABS, SAFE, OpenSeeS

Programming
MATLAB, TCL, C++
General
AutoCAD, MS-Office, MS-Visual Studio