Wenjin (Jim) Situ, PE

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Personal Website: http://wenjinsitu.github.io/

Education

Stanford University 2015-2017

M.S. in Structural Engineering

- 2016 Global PBL Design Lab: Structural Engineer
- Coursework in PBEE, Earthquake Resistant Design, Nonlinear Structural Analysis, Structural Dynamics, Programming Abstraction, Parametric Design

UCSD 2011-2015

B.S. in Structural Engineering

- Magna Cum Laude
- Department Rank 1 st

Relevant Experience

RAD Urban 2017 – Present

Structural Engineer, Oakland

2044 Franklin St, Oakland

- 31 stories mixed used tower with modular residential units, Performance Based Design
    - Lateral System: steel plate shear-wall supplemented with outrigger
- 3 stories residential townhome
    - Lateral System: special moment frame and braced frame

1433 Webster St, Oakland

- 15 stories residential tower with modular units
    - Lateral System: BRBF

5110 Telegraph Ave, Oakland

- 6 story with 2 basement level residential project
    - Lateral System : BRBF

Little Diversified Architectural Consulting 2016 Summer

Structural Intern, Charlotte

- K-12 school projects

ARUP 2014 Summer

Structural Intern

China World Trade Center Towers III B

- 59 story mixed-used tower in Beijing CBD

Selected Project/Research

Structural Design Optimization

- 3D topology for a 2-story building. The optimized result is a tree-like branching structure.

Performance-Based Earthquake Engineering MATLAB GUI

- Matlab GUI that was able to perform the whole performance-based framework: seismic hazard, probability of exceedance for given engineering parameter, probability of collapse, fragility damage state probability, and calculate expected annual loss.

Nonlinear Structural Analysis Programming Project

- Second order elastic nonlinear structural analysis for any 2D frame structures with geometric nonlinearity.

Memberships/Awards

- Phi Beta Kappa at Stanford Chapter.
- American Society of Civil Engineers (ASCE).
- Toastmasters Oakland.

Structural Software

- Perform-3D, ETABS, RAM Structural System, SAFE, Revit

Publication

"The Tallest Modular Tower Design Using a Performance-Based Approach" Structures Congress, 2018