Jim (Wenjin) Situ, P.E.

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Work Experience

RAD Urban, Oakland, CA 2017 — present
Project Engineer

- Designed and analyzed the gravity, lateral and foundation systems for multi-family residential high-rise project.
- Led the nonlinear time-history earthquake analysis for the lateral system with Perform-3D and provided structural performance matrices visualization such as inter-story drifts, internal force demand of the lateral system.
- Developed internal tools to improve the efficiency of structural design iteration processes.
- Coordinated and implemented structural testings for column spices and diaphragms of modular units.
- Served as a site engineer to review submittals and answer RFIs from the construction team.

Education

Stanford University, Stanford, CA
M.S. Structural Engineering 2017
GPA: 3.93/4.0
Relevant coursework: Earthquake Resistant Design, Nonlinear Structural Analysis, Advanced Steel and Concrete Design, Mechanics And Finite Elements, Structural Dynamics, Parametric Design, Structural Topology Optimization, Programming Abstraction.

University of California,San Diego, La Jolla, CA
B.S. Structural Engineering 2015
GPA: 3.9/4.0, Magna Cum Laude, Department Rank 1st

Skills

Structural Software: Etabs, RAM Structure, SAFE, Perform-3D, Revit, Enercalc, Ansys
Programming: Java, Python, Web Development (React Redux), MATLAB, SQL

Project Highlights

2044 Franklin St, Oakland
Steel plate shear wall supplemented with outrigger

- 31 stories mixed-used tower with modular residential units
- Performance based design approach with peer review panel

1433 Webster St, Oakland
Multi-story buckling restrained braced frame

- 15 stories residential tower with modular units

5110 Telegraph Ave, Oakland
Buckling restrained braced frame

- Six story with two basement level residential project

Internship

Little Diversified Architecture, Charlotte, NC 2016
Structural Engineering Intern

- Automated structural analysis process with Python to calculate design adequacy of structural members under design loads.
- Developed standard detail library with Revit.

ARUP, Beijing, China 2014
Structural Engineering Intern

- Automated Etabs model geometry generation for a curved high-rise in Beijing.

Awards and Publications

- Published "*The Tallest Modular Tower Design Using a Performance-Based Approach*", Structure Congress 2018
- Graduated 1st at UCSD Structural Engineering Program.