LEILA AHMADI

STRUCTURAL DESIGN ENGINEER

CONTACT

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SUMMARY

Creative Structural Design Engineer PE with 8 years at KPFF Consulting Engineers and Stantec designing complex building structures. Designed lateral systems for $320M mixed-use projects, reduced construction cost by $1.8M through structural optimization, and led BIM coordination team of 5. Specializes in mass timber and hybrid structural systems. PE licensed in CO and CA.

SKILLS

ETABS • STAAD.Pro
Autodesk Revit (BIM)
Mass Timber / CLT Design
Post-Tensioned Concrete Design
Seismic Design (ASCE 7, IBC)
Steel Design (AISC)
BIM Coordination

EDUCATION

University of Colorado Boulder
Boulder, CO
Master of Science
Aug 2013 - May 2015
Structural Engineering

University of Colorado Boulder
Boulder, CO
Bachelor of Science
Aug 2009 - May 2013
Civil Engineering

LANGUAGES

English ●●●●●
Spanish ●●●○○

EXPERIENCE

KPFF Consulting Engineers — Denver, CO
Structural Design Engineer — Jun 2019 - Present
Led structural design for commercial, residential, and civic projects in Rocky Mountain region.

- Led structural design for $320M mixed-use development incorporating cross-laminated timber (CLT) floor system; design reduced structural floor depth by 18 inches enabling 2 additional rentable floors
- Reduced construction cost by $1.8M on $68M office complex through post-tensioned concrete flat-plate optimization vs. conventional concrete frame
- Led 5-person BIM coordination team; reduced structural-MEP clashes by 56% prior to permit submission on $42M healthcare project
- Designed 6 structures in Seismic Design Category D using ETABS nonlinear pushover analysis; all passed peer review on first submission
- Mentored 3 EIT engineers; 2 achieved PE licensure within 18 months of mentorship

Stantec — Denver, CO
Associate Structural Engineer — Aug 2015 - May 2019
Designed structural systems for transportation and commercial building projects.

- Designed $28M transit station platform structure using glulam timber; project received ENR Mountain States Regional Best Project award
- Completed lateral analysis for 4 commercial buildings using STAAD.Pro; all designs delivered within project budget

PROJECTS

Lead Structural Engineer
High-Rise Building Project — Jan 2020 - Jun 2020
Designed and developed the structural system for a 50-story high-rise building, including foundations, superstructures, and external works
STAAD • ETABS • Autodesk Revit

Structural Engineer
Bridge Design Project — Jul 2019 - Dec 2019
Designed and developed the structural system for a cable-stayed bridge, including foundations, towers, and deck systems
STAAD • Autodesk Revit

CERTIFICATES

Professional Engineer (PE) License — Jan 2018
National Council of Examiners for Engineering and Surveying
Obtained the Professional Engineer (PE) license, demonstrating expertise in structural engineering

LEED AP BD+C — Jun 2019
U.S. Green Building Council
Obtained the LEED AP BD+C certification, demonstrating knowledge of sustainable design and construction practices