Rowan Pearson

Structural Engineer

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SUMMARY

Structural engineer with 5 years of experience in multifamily and mixed-use buildings, working in ETABS, RISA-3D and AutoCAD. Designed the lateral system for a 6-story, 180-unit apartment building that cut structural steel tonnage by 12%, and caught a shop-drawing error that would have left 40 columns under-reinforced. Known for clear calculation packages and close coordination with architects and contractors.

EXPERIENCE

Structural Engineer — Highline Structural Group

Denver, CO · Mar 2022 – Present

- Designed the steel moment-frame and composite floor system for a 6-story, 180-unit apartment building, cutting structural steel tonnage by 12% against the architect's early scheme.
- Ran wind and seismic load analysis in ETABS for 9 mid-rise projects a year, catching a drift problem on one 12-story tower that would have failed code by 15%.
- Reviewed 140 RFIs and 60 shop-drawing submittals a year, keeping structural review turnaround under 3 business days.
- Coordinated rebar and post-tensioning details with 3 general contractors, resolving field conflicts that would have delayed pours by a combined 2 weeks.

Staff Engineer — Cascade Engineering Partners

Denver, CO · Jul 2019 – Feb 2022

- Designed foundation and retaining wall details for 15 single-family and small commercial projects, using spread footings and helical piers depending on soil reports.
- Built hand and spreadsheet calculations checking RISA output for 5 senior engineers, catching a beam undersized by 20% before permit submittal.
- Produced construction drawings in AutoCAD and Revit for permit sets, cutting average drafting turnaround from 10 to 6 days after standardizing detail sheets.

SKILLS

Analysis: ETABS, RISA-3D, SAP2000, hand calculations per ASCE 7 and ACI 318

Materials: Structural steel, reinforced concrete, wood light-frame, post-tensioned slabs

Drafting: AutoCAD, Revit, Bluebeam

Codes: IBC, ASCE 7, ACI 318, AISC 360, local seismic and wind provisions

CERTIFICATIONS

Professional Engineer (P.E.), Colorado, 2021

EDUCATION

B.S. Civil Engineering, Colorado State University, 2018

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