Sofia Ramirez

// Structural Engineer I

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> SUMMARY

Structural Engineer I with 1.5 years of building design experience and an EIT certificate, designing concrete, steel and wood elements for schools, offices and multifamily projects. Runs STAAD and Mathcad calculations to ACI and CBC requirements, drafts in AutoCAD and Revit, and handles multiple project assignments on tight schedules.

> SKILLS

• STAAD • Mathcad • AutoCAD • Revit • ACI • California Building Code • Concrete Design • Excel
• Microsoft Office • Problem-Solving Skills

> EXPERIENCE

Structural Engineer I 06/2025 - Present
Capitol Valley Structural Engineers Sacramento, CA
Building design firm of 40 engineers working on K-12, office and multifamily projects.

- Design **150+** beams, columns, shear walls and footings a year in STAAD and Mathcad for 6 projects.
- Check concrete members to ACI 318 and wood shear walls to the California Building Code.
- Develop 40 Revit and AutoCAD details for construction document sets with the BIM team.
- Resolve 30 contractor RFIs on 2 school projects, each within the 5-day contract window.
- Build an Excel tool for wood beam sizing that cut routine calculation time by 40%.

Engineering Intern 06/2024 - 09/2024
Delta Ridge Engineering Davis, CA
Summer internship in a seismic retrofit firm.

- Surveyed 15 soft-story apartment buildings for retrofit and recorded existing conditions.
- Drafted 20 retrofit sheets in AutoCAD for city permit submittals.
- Calculated seismic weights for 8 buildings in Excel for the project engineer.
- Checked 12 concrete design calculations against ACI tables for a senior engineer.

Teaching Assistant 09/2022 - 05/2024
University of California, Davis Davis, CA
Part-time role in the Department of Civil and Environmental Engineering.

- Graded weekly homework for 120 statics and mechanics of materials students.
- Led 2 discussion sections a week on beam analysis and free-body diagrams.
- Wrote 15 Mathcad worked examples later added to the course website.

> EDUCATION

Bachelor of Science 06/2025
University of California, Davis Davis, CA
Civil Engineering

> CERTIFICATES

Engineer-in-Training (EIT) 2025
California Board for Professional Engineers, Land Surveyors, and Geologists