



# Danna Villegas

## Structural Intern

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### SUMMARY

Dedicated Civil Engineering student with actionable experience in structural design projects. Proven ability to communicate technical concepts clearly and work collaboratively with teams. Got hands-on experience via academic projects, focusing on design integrity and compliance. Eager to apply strong analytical skills and knowledge gained through coursework and practical applications. Passionate about continuous learning and development in structural engineering to contribute successfully as a team member.

### EDUCATION

#### Bachelor's Degree in Civil Engineering

University of California, Los Angeles 🎓 GPA: 3.8 📅 2026 📍 Los Angeles, CA

**Coursework:** Structural Analysis, Concrete Design, Steel Structures, Surveying

### TECHNICAL SKILLS

- **Structural Design Software:** AutoCAD, Revit, SAP2000
- **Surveying Equipment:** Leica Total Station, Trimble GPS, Level Instruments
- **Statistical Analysis Tools:** MATLAB, SPSS, R
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Material Testing Standards:** ASTM, AISC, ACI
- **Data Visualization Tools:** Tableau, Power BI, Excel
- **Building Codes and Regulations:** International Building Code, Local Building Authorities, OSHA Regulations
- **Technical Documentation:** Reports, Proposals, SOPs
- **Soft Skills:** Critical Thinking, Time Management, Teamwork
- **Compliance and Safety Training:** OSHA, First Aid, CPR

### EXPERIENCE

#### Structural Design Intern

University Project 📅 January 2026 - Present 📍 Los Angeles, CA

Engaged in a team environment to develop structural designs for a multi-story building project, ensuring safety standards and stability measures were prioritized. Responsibilities included software modeling, load ratio analysis, and collaborative planning sessions.

- Collaborated with a diverse group to create detailed structural designs, focusing on safety and regulatory standards.
- Utilized AutoCAD and Revit for creating structural plans and 3D visuals for better stakeholder understanding.
- Performed load analyses to verify compliance with local codes while ensuring overall design safety.
- Facilitated weekly team meetings, contributing to progress discussions and overcoming challenges together.
- Drafted comprehensive documentation detailing all design phases, aiding faculty reviews effectively.
- Provided peer feedback during design reviews, significantly improving collaborative skills.

#### Research Assistant

Academic Research 📅 September 2025 - December 2025 📍 Los Angeles, CA

Supported research initiatives focused on sustainable construction practices, emphasizing data collection accuracy and presentation skills to convey complex findings clearly. Collaborated closely with faculty on evaluating alternative materials for structural applications.

### STRENGTHS

- 🗨️ **Technical Communication**  
Simplified intricate engineering ideas making them accessible to non-engineers, particularly during project discussions.
- 👥 **Team Collaboration**  
Fostered an environment of encouragement, leading classmates to share diverse perspectives in design critiques, improving outcomes.
- 🔄 **Adaptability**  
Constantly adjusted plans based on evolving project demands, maintaining clarity in communication.
- 💡 **Analytical Thinking**  
Applied critical thinking during material evaluations and load tests to push for better sustainability practices.
- ★ **Leadership**  
Guided project teams through tight schedules by fostering proactive problem-solving methods among peers.

### SKILLS

Structural Design AutoCAD Revit

Load Analysis Technical Writing

Team Collaboration

Public Speaking

Communication Skills

Research Skills Problem Solving

Software Modeling Data Collection

Presentation Skills Documentation

Safety Protocols

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



- Structural Design Intern at University Project (6 Months)
- Research Assistant at Academic Research (3 Months)
- Capstone Project Developer at Course Project (4 Months)

- Assisted in an engaging research project aimed at finding sustainable solutions for civil construction materials.
- Coordinated closely with faculty, ensuring systematic evaluation of material performance across conditions.
- Crafted presentations summarizing insights and gaining valuable public speaking experience through departmental seminars.
- Conducted thorough literature reviews, enhancing analytical abilities to support various projects.

### Capstone Project Developer

Course Project 📅 January 2025 - May 2025 📍 Los Angeles, CA

Directed a capstone project that analyzed the aesthetic and functional components of bridge structures. Leveraged advanced software for simulations while collaborating effectively with team members to meet critical deadlines.

- Spearheaded a bridge project, applying both design principles and substantive loading assessments to improve outcomes.
- Leveraged structural analysis software effectively to simulate various stress scenarios impacting the design.
- Successfully communicated findings and methodologies during presentations to peers and faculty, earning positive recognition.
- Guaranteed timely project delivery and high standards by actively managing timelines and coordinating efforts among team members.

### LEADERSHIP & AWARDS

- Dean's List, UCLA, 2025
- Academic Excellence Award, Civil Engineering Department, 2025

### CERTIFICATIONS

- First Aid and CPR Certified 📅 2025
- OSHA 10-Hour Construction Safety 📅 2025

### PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers, 2024 – Present
- Volunteer, Habitat for Humanity, 2025 – Present

### ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

### REFERENCES

AVAILABLE ON REQUEST