

Jett Payne

Bridge Structural Engineer

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SUMMARY

Experienced Bridge Structural Engineer with over five years of expertise in bridge and tunnel infrastructure design. Proficient in performing complex structural analyses and developing detailed construction plans. Strong knowledge of industry-standard design software, including STAAD.Pro, SAP2000, and AutoCAD. Committed to continuous quality improvement and innovation through collaboration within cohesive teams. Proven ability to enhance project outcomes while ensuring compliance with engineering standards. Passionate about creating safe, efficient transportation structures that meet the dynamic needs of the community. Eager to bring practical experience and leadership skills to new challenges.

EXPERIENCE

Bridge Structural Engineer

Skyline Engineering Solutions 📅 June 2021 - Present 📍 San Francisco, CA

As a Bridge Structural Engineer, provide oversight for the structural design of bridges and tunnels. Manage crucial projects while collaborating closely with senior engineers and stakeholders. Leverage expertise in both traditional analysis techniques and innovative methods to solve engineering challenges effectively.

- Lead structural design tasks for major bridge projects, ensuring alignment with engineering standards and client expectations.
- Execute advanced 2D and 3D structural analyses using STAAD.Pro to craft innovative design events.
- Conduct thorough soil-structure interaction analyses, positively impacting the safety and integrity of underground frameworks.
- Oversee detailed checking of design calculations by junior engineers to ensure accuracy and reliability.
- Collaborate with project managers on developing precise geometric layouts and robust construction specifications.
- Foster strong relationships with clients and stakeholders, enhancing overall project success and satisfaction.

Junior Structural Engineer

MetroBridge Associates 📅 August 2018 - May 2021 📍 Sacramento, CA

Contributed actively as a Junior Structural Engineer in the execution of various bridge designs. Worked under experienced mentors while enhancing technical and team collaboration skills through hands-on projects.

- Assisted in analyzing bridge structures, playing a key role in numerous projects across California.
- Performed 2D structural analyses and supported preparation of calculations for review by senior engineers.
- Developed construction plans utilizing AutoCAD, adhering strictly to timelines and project specifications.
- Participated in team discussions focused on strategic goals and collaborative strategies.
- Helped prepare material quantity calculations along with compliant construction specifications.
- Gained significant familiarity with industry-standard tools, contributing to both personal growth and team capabilities.

Engineering Intern

Pacific Design Group 📅 June 2017 - July 2018 📍 Fresno, CA

During my internship, engaged in a variety of structural analysis projects centered around bridge design, enhancing practical skills in engineering processes under seasoned professionals.

- Participated in multiple structural analysis activities, focusing on bridge design with the guidance of senior engineers.
- Assisted with structural calculations, helping create essential documentation for internal evaluations.
- Collaborated in drafting plans using AutoCAD, improving precision in engineering drawings.
- Researched building materials and methodologies, lending supportive knowledge toward project advancement.
- Presented findings at team reviews, showcasing projects to enhance communication proficiency.
- Completed the internship highlighted by skill development in technical and analytical aspects of structural engineering.

LEADERSHIP & AWARDS

- Excellence in Civil Engineering Award - Skyline Engineering Solutions, December 2022
- Outstanding Team Collaboration Recognition - MetroBridge Associates, February 2020

EDUCATION

Bachelor's Degree in Civil Engineering

University of California, Berkeley 🎓 GPA: 3.8 📅 2018 📍 Berkeley, CA

Coursework: Structural Analysis, Reinforced Concrete Design, Bridge Engineering, Construction Management

CERTIFICATIONS

- Engineer In Training (EIT) 📅 2020
- Fundamentals of Engineering Certification 📅 2019

TECHNICAL SKILLS

- **Design Software:** STAAD.Pro, SAP2000, AutoCAD
- **Modeling Tools:** Revit, SketchUp, SolidWorks
- **Analysis Techniques:** Finite Element Method, Linear Regression, Monte Carlo Simulation
- **Collaboration Platforms:** Microsoft Teams, Slack, Zoom
- **Documentation Standards:** AASHTO, FHWA, ELCRA
- **Reporting Tools:** MS Excel, MS Project, Power BI
- **Industry Certifications:** PE License, OSHA Safety Certifications, First Aid/CPR
- **Technical Writing:** Proposal Development, Technical Reports, Documentation
- **Field Testing Equipment:** Load Cells, Strain Gauges, GeoTechnical Sensors
- **Quality Assessment Tools:** Checklist Assessments, SWOT Analysis, Risk Management Tools

SKILLS

- Structural Analysis
- Bridge Design
- AutoCAD
- STAAD.Pro
- Soil-Structure Interaction
- Team Collaboration
- Project Management
- Construction Specifications
- Geometric Layouts
- Material Calculations
- Finite Element Analysis
- Analytical Thinking
- Client Relations
- Quality Assurance
- Regulatory Compliance

PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers (ASCE)
- Participant, Regional Engineering Competition

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST