



Javier Barber

Substation Senior Structural Engineer

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SUMMARY

Dedicated structural engineer with over 10 years of expertise in high voltage electrical switchyard and substation projects up to 500kV. Strong leadership in executing complex structural engineering tasks, focusing on steel structures and foundations. Proven ability to manage multiple concurrent projects while ensuring compliance with industry standards and quality management protocols. Passionate about mentoring juniors, fostering a collaborative environment for innovative solutions in power delivery. Excited about the opportunity to contribute to reliable and sustainable power systems that support community growth and industrial expansion.

EXPERIENCE

Senior Structural Engineer

Innovative Power Design 📅 January 2021 - Present 📍 Richmond, VA

Leading large-scale structural engineering projects focused on high voltage substations. Ensuring strength and reliability through detailed analysis and effective design practices while adhering strictly to industry codes and safety regulations.

- Introduced a new approach for designing steel framing in substations, resulting in improved structural performance.
- Conducted quality assurance reviews on design submissions, guaranteeing adherence to both company and client standards.
- Facilitated workshops to streamline cross-department collaboration, enhancing overall project efficiency.
- Mentored junior engineers by promoting a knowledge-sharing culture, significantly raising team competency levels.
- Spearheaded multi-project strategy meetings that optimized resource allocation across verticals.
- Fostered client relationships by actively communicating technical solutions and project updates, enhancing customer satisfaction.

Structural Engineer

Advanced Engineering Consultants 📅 March 2016 - December 2020 📍 Virginia Beach, VA

Executed a variety of structural designs for electrical switchyard projects, committed to high standards of quality, safety, and efficiency. Coordinated efforts with multidisciplinary teams to facilitate successful project outcomes.

- Developed innovative design calculations for structural components, increasing reliability rates in project implementations.
- Prepared technical documentation that supported robust proposals, positively impacting success rates in client bids.
- Played a crucial role in site evaluations that influenced major decisions for construction methods.
- Collaborated closely with civil engineers to optimize layout plans, enhancing structural longevity and cost-efficiency.
- Participated in post-project analyses, leading to actionable insights that improved future design strategies.
- Led training sessions focused on best practices in engineering methodologies, resulting in enhanced team competence.

Junior Structural Engineer

Riverside Engineering Group 📅 July 2012 - February 2016 📍 Newport News, VA

Provided critical support in design and analysis processes, contributing to foundational constructions for various infrastructure projects. Maintained strong communication channels within teams to ensure deliverable timelines were met.

- Assisted senior engineers in preparing detailed construction reports and specifications that facilitated permit approvals.

STRENGTHS

- 👤 **Leadership**
Guide diverse engineering teams, earning trust and fostering open communication for collective success.
- 🔄 **Adaptability**
Handle unexpected challenges gracefully, adapting plans swiftly without compromising project integrity.
- 🔧 **Technical Expertise**
Deep understanding of structural concepts combined with hands-on experience in high voltage projects.
- ✅ **Quality Focus**
Uphold rigorous design standards, continuously seeking ways to elevate quality output on all projects.
- 💡 **Innovation**
Pursue cutting-edge solutions, combining creativity with engineering principles for exceptional results.

SKILLS

Structural Design
Foundation Analysis AutoCAD
STAAD RISA
Project Management
Quality Assurance
Team Collaboration
Technical Documentation
Site Evaluation

Engineering Standards Compliance

Client Relations Mentoring

Design Optimization

Multidisciplinary Coordination

Construction Safety

- Conducted inspections and evaluations that ensured compliance with safety regulations during construction phases.
- Contributed to drafting floor plans and layouts using AutoCAD designs, which streamlined production timelines.
- Engaged in continuous professional development, attending workshops to remain current on rising industry trends and technologies.
- Empowered team problem-solving initiatives by offering creative, informed contributions during brainstorming sessions.
- Maintained good rapport with clients during early project stages, which nourished growth for future projects.

LANGUAGES

English Native

Spanish Proficient

MY CAREER



- Senior Structural Engineer at Innovative Power Design (5.5 Years)
- Structural Engineer at Advanced Engineering Consultants (4.8 Years)
- Junior Structural Engineer at Riverside Engineering Group (3.6 Years)

LEADERSHIP & AWARDS

- Outstanding Mentor Award at Innovative Power Design, 2023
- Safety Excellence Recognition from Advanced Engineering Consultants, 2018

EDUCATION

Bachelor's Degree in Civil Engineering

Virginia Tech GPA: 3.6 2012 Blacksburg, VA

Coursework: Structural Analysis, Construction Management, Geotechnical Engineering, Materials Science

CERTIFICATIONS

- Professional Engineer (PE) 2015
- Structural Engineer (SE) License in Progress  2026

TECHNICAL SKILLS

- **Engineering Software:** AutoCAD, STAAD, RISA
- **Quality Management Systems:** ISO 9001, AISC, ASCE
- **Project Management Tools:** MS Project, Basecamp, Trello
- **Design Standards:** NEC, IEEE
- **Collaboration Platforms:** Microsoft Teams, Slack, Google Workspace
- **Technical Documentation Tools:** M.S. Word, LaTeX, Docs
- **Inspection Equipment:** Total Station, Leveling Instruments, Laser Scanners
- **Modeling Software:** ETABS, SAP2000, ANSYS
- **Training & Development:** Coaching, Workshops, Industry Seminars
- **Field Evaluation Tools:** Calibration Kits, Surveying Tools, Schematic Designs

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Structural Engineers Association of Virginia (SEAV)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST