



# Juan Day

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## SUMMARY

Dedicated Senior Civil Engineer with over ten years of quality assurance experience in civil engineering. Proven leadership in maintaining laboratory accreditation and implementing comprehensive quality control measures. Skilled at developing strategic plans, optimizing budgets, and fostering essential collaborative relationships with diverse stakeholders. Actively involved in advancing research initiatives for improved material quality and compliance with industry standards, ensuring delivery excellence across various construction projects. Passionate about mentoring the next generation of engineers while driving technical innovations that enhance efficiency.

## EXPERIENCE

### Senior Civil Engineer

January 2017 - Present

Quality Assurance Engineering Solutions

*Berlin, VT*

Steering a high-performing team focused on maintaining AASHTO accreditation for our laboratory by enforcing stringent quality assurance standards. Successfully developing and reviewing invaluable technical specifications, which consistently improve project quality across all stages of construction. Managing the Quality Assurance division's budget, leading to effective resource allocation strategies with notable cost savings. Establishing meaningful partnerships with state and national materials producers for significant applied research progress. Conducting thorough reviews of project documents, ensuring not just compliance but also safety regulations are met methodically. Instilling growth through mentorship for junior engineers, elevating team capabilities significantly.

- Led a team in maintaining AASHTO accreditation, applying rigorous quality standards effectively.
- Developed and reviewed essential technical specifications, enhancing project outcomes.
- Oversaw budget management, optimizing spend and resource allocations.
- Cultivated strong relationships with state and national materials producers, improving collaboration.
- Conducted detailed project documentation reviews, ensuring robust safety and quality compliance.
- Mentored junior engineers, facilitating skill development and knowledge transfer within the team.

### Civil Engineer

June 2013 - December 2016

Civil Engineering Group

*Burlington, VT*

Focused on materials testing and analysis, ensuring uncompromised adherence to established engineering standards. Collaborated closely with project managers to formulate systematic quality control plans resulting in substantial reductions of material defects. Proactively prepared comprehensive reports and presentations to keep stakeholders informed, driving transparency throughout the project's lifecycle. Played a key role in field inspections, faithfully adhering to safety protocols at every construction site. Developed extensive training materials, streamlining onboarding processes for newcomers joining the engineering team. Engaged in continuous learning that led to achieving Professional Engineer certification.

- Conducted rigorous material testing and analyses, confirming strict compliance with engineering specifications.
- Collaborated with project managers, creating effective quality control plans that yielded fewer defects.
- Worked on comprehensive stakeholder reports and presentations, driving greater communication clarity.
- Actively participated in ongoing field inspections, ensuring adherence to prevailing safety guidelines.
- Produced training materials for new hires governed onboarding efficiency and engagement.
- Pursued professional development opportunities, achieving licensure as a Professional Engineer.

### Junior Civil Engineer

August 2010 - May 2013

Engineering Solutions Inc.

*Montpelier, VT*

Assisted senior engineers in executing feasibility studies and undertaking environmental assessments on a range of engineering projects. Contributed heavily to preparing critical design documents and specifications that fully complied with local regulations. Made valuable site visits to collect project-related data, informing decision-making processes efficiently. Engaged with multidisciplinary teams to craft innovative engineering solutions tailored for unique challenges faced. Maintained systematic project records which significantly improved overall project accountability and tracking efforts. Committed to personal growth through active participation in workshops and training sessions focused on enhancing technical skills.

- Supported senior engineers in feasibility studies and environmental assessments accurately.
- Prepared design documents and specifications diligently, ensuring compliance with local law.
- Executed insightful site visits that enriched project data collection and decision-making.
- Collaborated effectively in cross-functional teams addressing complex engineering obstacles.
- Maintained meticulous project records promoting tracking accuracy and responsibility.

- Participated in various workshops aimed at enhancing both technical abilities and industry insights.

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## LEADERSHIP & AWARDS

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- Outstanding Service Award for Leadership in Quality Assurance, 2022
- Innovation Recognition for Excellence in Applied Research, 2021

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## EDUCATION

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### Bachelor's Degree in Civil Engineering

2010

University of Vermont GPA: 3.5

Burlington, VT

*Coursework: Structural Engineering, Materials Science, Environmental Engineering, Transportation Engineering*

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## CERTIFICATIONS

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- Licensed Professional Engineer (PE) 📅 2015
- Project Management Professional (PMP) 📅 2018

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## TECHNICAL SKILLS

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- **Quality Management Tools:** AASHTO Standards, ISO 9001, Six Sigma
- **Design Software:** AutoCAD, Revit, Civil 3D
- **Testing Equipment:** Concrete Compression Tester, Soil Shear Tester, Aggregate Wash
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Data Analysis Platforms:** MATLAB, R, Excel
- **Documentation Software:** Microsoft Word, Adobe Acrobat, SharePoint
- **Collaboration Tools:** Slack, Microsoft Teams, Zoom
- **Communication Systems:** Email, Phone Conference, Webinars
- **Research Methodologies:** Experimental Design, Statistical Analysis, Survey Methods
- **Sustainability Practices:** LEED Certification, Water Management, Green Building Standards

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## SKILLS

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- Quality Assurance
- Materials Testing
- Strategic Planning
- Budget Management
- Team Leadership
- Technical Documentation
- Collaboration
- Project Coordination
- Environmental Assessment
- Feasibility Studies
- Design Specifications
- Site Inspections
- Effective Communication
- Risk Management
- Resource Allocation

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## PROFESSIONAL AFFILIATIONS

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- American Society of Civil Engineers, Member since 2015
- Vermont Engineering Society, Active Participant in Community Outreach Programs

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## LANGUAGES

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- English (Native)
- Spanish (Proficient)

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## ADDITIONAL INFORMATION

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

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## REFERENCES

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AVAILABLE ON REQUEST