

Dawson Sanchez

Senior Associate Chemical Engineer

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SUMMARY

Dedicated Chemical Engineer with over 3 years of diverse experience in project management, regulatory compliance, and client relations, primarily within the renewable energy sector. Adept at leading engineering reviews and conducting inspections to ensure adherence to federal regulations. Proficient in preparing process flow diagrams and engaging directly with clients, fostering trust and clarity throughout projects. Currently pursuing PMP certification to solidify project management expertise. Eager to contribute innovative solutions at Weaver Solutions, collaborating closely with leadership and multidisciplinary teams for impactful outcomes.

EXPERIENCE

Chemical Engineer

Sustainable Energy Consulting 📅 May 2024 - Present 📍 Houston, TX

Accountable for leading engineering review projects focused on compliance with state and federal regulations affecting renewable energy initiatives. Collaborates cross-functionally to facilitate efficient operations while ensuring contract requirements are met.

- Directed engineering assessments ensuring compliance across multiple renewable energy projects.
- Conducted thorough inspections at biofuel production sites to validate environmental standards.
- Developed comprehensive reports detailing project progression for enhanced transparency with clients.
- Partnered with various discipline teams to create detailed energy balance calculations and process layouts.
- Mentored junior engineers, enhancing team capability in technical documentation practices.
- Engaged actively with industry groups for ongoing education in regulations impacting project delivery.

Junior Chemical Engineer

EcoTech Innovations 📅 June 2022 - April 2024 📍 Dallas, TX

Supported project managers in hands-on execution of deliverables related to energy efficiency projects. Focused on evaluating project specifications in line with ever-stringent environmental laws.

- Participated in engineering assessments assessing legal compliance for renewable energy initiatives.
- Produced block flow diagrams and iterative renewables processes indicating operational efficiencies.
- Navigated client needs through effective communication, delivering timely progress engagements.
- Assisted project leads in developing structured timelines, fostering accountability and focus.
- Investigated and reported on technological advancements to inform strategic direction in renewable projects.
- Contributed positively to team brainstorming sessions, enhancing overall productivity and effectiveness.

Engineering Intern

Green Solutions Group 📅 June 2021 - May 2022 📍 Austin, TX

Gained foundational experience in engineering roles pertinent to renewable project documentation. Assisted professionals entirely during the development phase of crucial evaluations.

- Drafted essential engineering documents including process diagrams for renewable systems.
- Executed preliminary assessments on plant infrastructure aiming for compliance checks.
- Collaborated with senior engineers on extensive energy assessments adjusting operational workflows.
- Observed construction standards on-site by participating in field visits alongside project leaders.
- Helped gather data for formal client presentations, paving avenues for better collaboration.
- Participated in workshops targeted at deepening understanding of industry-specific rules and frameworks.

LEADERSHIP & AWARDS

- Dean's List, University of Texas at Austin, 2021
- First Place, University Engineering Challenge, 2020

EDUCATION

Bachelor's Degree in Chemical Engineering

University of Texas at Austin 🎓 GPA: 3.8 📅 2021 📍 Austin, TX

Coursework: Thermodynamics, Process Control, Reaction Engineering, Transport Phenomena

CERTIFICATIONS

- EIT License 📅 2021
- Project Management Professional (PMP) 📅 In Progress

TECHNICAL SKILLS

- **Engineering Design Tools:** AutoCAD, Aspen Plus, MATLAB
- **Project Management Software:** Microsoft Project, Asana, Trello
- **Data Analysis Applications:** Python, R, Excel
- **Regulatory Compliance Frameworks:** OSHA Standards, EPA Guidelines, ISO 14001
- **Renewable Energy Technologies:** Solar Panels, Wind Turbines, Biofuels
- **Communication Tools:** Slack, Email, Microsoft Teams
- **Presentation Software:** PowerPoint, Google Slides, Prezi
- **Inspection Technologies:** Thermal Imaging, Drones, Sonar
- **Research Methodologies:** Case Studies, Surveys, Experiments
- **Technical Writing Tools:** LaTeX, Markdown, Adobe InDesign

SKILLS

- Regulatory Compliance
- Client Relations
- Mass Balance Calculations
- Stakeholder Communication
- Project Management
- Technical Reporting
- Environmental Standards
- Documentation Standards
- Energy Analysis
- Inspection Procedures
- Engineering Assessments
- Strategic Planning
- Process Flow Diagrams
- Cross-functional Collaboration
- Renewable Energy Projects
- Continuous Improvement

PROFESSIONAL AFFILIATIONS

- Member, Society of Chemical Engineers, 2020 – Present
- Volunteer, Clean Energy Initiative, 2021 – Present

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST