

# Lane Cruz

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## SUMMARY

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Driven Lead Chemical Engineer with over six years of experience in implementing advanced chemical processes. Expertise lies in leading teams and enhancing project efficiency, coupled with a solid understanding of complex technical challenges. Proven track record in optimizing costs and collaborating cross-functionally for innovative solutions. Committed to mentorship, developing junior engineers while ensuring strict compliance with safety protocols. Eager to leverage extensive background to drive positive impact at Innovative Chemical Solutions, fostering team success and implementing best practices.

## EXPERIENCE

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### Lead Chemical Engineer

June 2022 - Present

Innovative Chemical Solutions

Tampa, FL

Leading chemical engineering projects that enhance production efficiency while ensuring safety compliance. Oversaw a diverse engineering team and collaborated closely with stakeholders to strategize and innovate processes across the organization.

- Spearheaded development of a new chemical process, increasing production efficiency by 30%.
- Managed a team of 10 engineers, promoting collaboration and achieving timely project completions.
- Engineered solutions to intricate technical issues, resulting in a 25% reduction in downtime.
- Partnered with cross-functional departments to enhance product quality and minimize waste through effective initiatives.
- Conducted in-depth research resulting in strategic raw material sourcing, achieving a 15% cost reduction.
- Championed departmental safety compliance, establishing a zero-accident work environment.

### Chemical Engineer

April 2018 - May 2022

Advanced Materials Inc.

Orlando, FL

Focused on optimizing chemical processes while collaborating with research teams on product innovations. Played a vital role in boosting production capacity and mentoring junior engineers within the company.

- Engineered and optimized chemical processes, achieving a 20% boost in production capacity.
- Collaborated with R&D teams, contributing ideas for three successful new product formulations.
- Evaluated production data to address inefficiencies, implementing corrective actions that improved operations.
- Built strong relationships with suppliers and internal stakeholders to ensure resource availability.
- Mentored junior engineers, enhancing their technical proficiency and contributions to projects.
- Meticulously maintained adherence to safety protocols, earning commendable compliance ratings during audits.

### Junior Chemical Engineer

January 2016 - March 2018

EcoChem Solutions

Clearwater, FL

Participated in the development of chemical processes with emphasis on improving safety and refinement. Supported experienced engineers while gaining practical knowledge and hands-on troubleshooting experience.

- Assisted in evolving chemical processes focusing on both efficiency and safety measures.
- Conducted experiments with meticulous documentation, contributing valuable insight into process enhancements.
- Supported identification of production issues by assisting senior engineers in troubleshooting procedures.
- Engaged in continuous learning, attending safety training and collaborative projects with team members.
- Participated actively in team discussions, enhancing communication and teamwork skills.

## LEADERSHIP & AWARDS

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- Excellence Award for Safety Compliance, Innovative Chemical Solutions, 2023
- Leadership Development Award, Advanced Materials Inc., 2021

## EDUCATION

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### Bachelor's Degree in Chemical Engineering

2015

University of Florida GPA: 3.8

Gainesville, FL

**Coursework:** Thermodynamics, Chemical Process Analysis, Reaction Engineering, Fluid Mechanics

## CERTIFICATIONS

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- Certified Chemical Engineer (CCE) 📅 2021
- Six Sigma Green Belt 📅 2020

## TECHNICAL SKILLS

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- **Chemical Engineering Software:** MATLAB, Aspen Plus, ChemCAD
- **Data Analysis Tools:** Excel, Minitab, SPSS
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Simulation Software:** COMSOL, ANSYS, HYSYS
- **Statistical Quality Control:** Six Sigma, Kaizen, DMAIC
- **Documentation Standards:** ISO 9001, AS9100, ASTM
- **Regulatory Compliance:** EPA Standards, OSHA Guidelines, REACH Regulation
- **Laboratory Techniques:** Spectroscopy, Chromatography, Titration
- **Process Equipment:** Reactor Systems, Heat Exchangers, Distillation Columns
- **Health & Safety Protocols:** Risk Assessment, Safety Audits, Incident Reporting

## SKILLS

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- Process Development
- Stakeholder Engagement
- Project Management
- Data Analysis
- Team Leadership
- Continuous Improvement
- Mentorship
- Cost Reduction
- Technical Troubleshooting
- Research and Analysis
- Collaboration
- Problem Solving
- Compliance Management
- Safety Regulations
- Innovation
- Quality Assurance

## PROFESSIONAL AFFILIATIONS

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- Member, American Institute of Chemical Engineers (AIChE)
- Volunteer, STEM Outreach Programs in Local Schools

## LANGUAGES

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- English (Native)
- Spanish (Intermediate)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST