

# Amira Patel

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## SUMMARY

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Results-driven Chemical Engineer with over 5 years of experience in process optimization and project management. Proven track record of improving production efficiency and reducing costs through innovative chemical processes and techniques.

## EXPERIENCE

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### Senior Chemical Engineer

Jan 2022 - Present

*GreenTech Innovations, San Francisco, CA*

- Redesigned a chemical processing system, resulting in a 20% increase in production efficiency and a \$250,000 annual cost saving.
- Led a cross-functional team to implement Lean Six Sigma methodologies, reducing process bottlenecks and improving throughput by 15%.
- Developed and validated new environmentally friendly chemical formulations, contributing to a 30% reduction in waste.

### Chemical Engineer

Jun 2018 - Dec 2021

*Chemical Solutions Inc., Los Angeles, CA*

- Implemented process improvements that led to a \$150,000 reduction in operational costs within the first year.
- Conducted hazard analysis and risk assessments to ensure compliance with safety regulations and standards.
- Collaborated with R&D to scale up pilot processes, achieving a successful transition to commercial production.

### Process Engineer Intern

Jun 2017 - Aug 2017

*PetroChem Industries, Houston, TX*

- Assisted in the optimization of a thermal cracking unit, improving yield by 10% over the internship period.
- Participated in safety audits and maintenance planning, enhancing workplace safety protocols.

## EDUCATION

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### Bachelor of Science in Chemical Engineering

May 2018

*University of California, Berkeley, Berkeley, CA • GPA: 3.7*

## SKILLS

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**Technical Skills:** Process Optimization, Chemical Reaction Engineering, Fluid Mechanics, Thermodynamics

**Tools & Frameworks:** Aspen Plus, MATLAB, AutoCAD, Lean Six Sigma