Brooklyn Ballard

(615) 555-1234 brooklyn.ballard@example.com linkedin.com/in/brooklynballard Nashville, TN 37209

SUMMARY

Passionate Chemical Engineering student with hands-on experience in cement production processes through dynamic projects and internship roles. Eager to leverage rigorous technical knowledge and collaborative attitude for continuous improvement at Breezy Cement Corp. Demonstrated ability to perform process optimization, enhance operations efficiency, and ensure compliance with safety protocols. Proven effectiveness in utilizing analytical skills to conduct audits and suggest impactful improvements. Strong focus on sustainability aligns with Breezy Cement's commitment to environmental stewardship. Prepared to contribute significantly toward team objectives while learning from industry-leading professionals.

EDUCATION

Bachelor of Science in Chemical Engineering 2026

University of Tennessee GPA: 3.8 *Knoxville, TN*

Coursework: *Cement Chemistry, Process Optimization, Data Analysis, Technical Writing*

TECHNICAL SKILLS

- **Process Control Software:** Eagle Technology, CEMView, Automated System Optimization
- **Data Analysis Tools:** MATLAB, Python, Microsoft Excel
- **Project Management Software:** Microsoft Project, Asana, Trello
- **Reporting Tools:** Tableau, Microsoft Power BI, Google Analytics
- **Chemical Engineering Principles:** Thermodynamics, Fluid Mechanics, Material Science
- **Documentation Standards:** ISO 9001, ASTM International, OSHA Regulations
- **Testing Equipment:** Spectrophotometer, Viscometer, pH Meter
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Collaboration Tools:** GitHub, SharePoint, Confluence
- **Presentation Software:** PowerPoint, Prezi, Google Slides

SKILLS

- Cement Chemistry
- Process Optimization
- Microsoft Office
- Data Analysis
- Technical Writing
- Project Management
- Effective Communication
- Laboratory Safety
- Sustainable Practices
- Collaborative Learning
- Time Management
- Performance Evaluation
- Problem Solving
- Quality Control
- Research Methodology

EXPERIENCE

Chemical Engineering Intern

June 2025 - August 2025

University Research Lab *Chattanooga, TN*

Supported critical projects within a university research lab, focusing on operational efficiencies in chemical processes. Collaborated closely with faculty and peers, enhancing practical understanding of manufacturing standards and regulations. Gained exposure to real-world applications, contributing feedback that positively impacted internal safety protocols.

- Conducted robust process audits, pinpointing inefficiencies and crafting actionable recommendations.
- Engaged in the documentation of laboratory findings, leading to improved safety measures.
- Utilized Microsoft Office Suite effectively for data management, improving report generation.
- Streamlined presentation creation for conferences, showcasing essential research methodologies.
- Participated actively in collaborative brainstorming sessions focused on process enhancements.
- Collected and analyzed performance data, ensuring compliance with established industry regulations.

Capstone Project Developer

January 2025 - May 2025

University Project *Nashville, TN*

Led a transformative team project aimed at developing a sustainable cement formulation. Engaged with local construction stakeholders to understand application requirements while balancing environmental impact and production quality. The project resulted in valuable insights for future product designs in cement engineering.

- Pioneered a comprehensive research initiative to create an optimized cement mix design.
- Analyzed performance outcomes through systematic laboratory testing, addressing different material compositions.
- Presented findings confidently before a panel of experts, garnering constructive industry feedback.

- Developed an intricate report detailing methodologies and continuous improvement strategies.
- Employed software tools for meticulous data analysis, refining presentation development skills.
- Fostered innovation through an inclusive team environment, encouraging idea-sharing.

Research Assistant September 2024 - December 2024

Academic Research *Nashville, TN*

Assisted in driving research initiatives regarding cement production mechanisms. Developed critical problem-solving strategies utilised within a collaborative academic setting, emphasizing the importance of safety and adherence to protocols. Enhanced understanding of advanced topics in chemical engineering.

- Supported comprehensive research efforts focusing on optimization practices for advanced materials.
- Participation in detailed discussions pertaining to new methodologies and experimental techniques.
- Accumulated and examined valuable quantitative data related to optimization efforts.
- Worked alongside faculty members in drafting scholarly publications, strengthening technical writing acumen.
- Promoted equipment maintenance diligence by enforcing rigorous safety checks during all research activities.
- Enhanced knowledge of sustainability approaches in material sciences, appealing to modern engineering challenges.

LEADERSHIP & AWARDS

- Dean's List (2024, 2025)
- First Place, Engineering Design Challenge (2025)

CERTIFICATIONS

- Microsoft Office Specialist 2026
- Safety in Chemical Engineering Practices 2026

PROFESSIONAL AFFILIATIONS

- Member, Chemical Engineering Society
- Volunteer, Habitat for Humanity

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST