

# Leah Clark

CHEMICAL ENGINEER

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Charlotte, NC

Chemical Engineer building toward process control and industrial automation, with hands-on plant experience across process, quality, and manufacturing engineering, plus practical experience in web application development. Seeking to bridge chemical process fundamentals with DeltaV/PLC/SCADA-based control systems.

## EXPERIENCE

### ASSA ABLOY

Jun 2025 - Present

#### Process Engineering Intern · May 2026 - Present

- Led digital transformation of maintenance operations, building a hub for KPI tracking, daily meetings, and machine status monitoring, reducing downtime reporting delays by 90%.
- Led a 5S Kaizen event, removing 9+ bins of obsolete materials, recovering 540 sq ft, and creating a space for a touchscreen display integrating the maintenance module.
- Built a browser-based app centralizing PFDs, PFMEAs, and Control Plans for secure documentation and reporting; used to investigate air-leak tester failures and propose new functional test designs.
- Trained two interns on WI creation, submission, and approval process, managing the full pipeline to website publication.

#### Quality Intern · June 2025 - May 2026

- Verified and corrected 175+ work instructions, identifying discrepancies between documented procedures and actual operator practices on the floor.
- Ballooned 220+ engineering drawings to support inspections and resolve specification inconsistencies.
- Reengineered NCM Cage inventory workflow to address missing items, disorganization, and lack of tracking, building an Excel tool for real-time inventory visibility.

### Manufacturing Engineering Intern · BOMAG

May 2024 - August 2024

- Created 3 machine work instructions from scratch and rebuilt documentation across 4 machine lines, reconstructing 100+ Excel sheets of shop floor work instructions.
- Maintained a manual defect tracking log by machine over 3 months, documenting recurring issues to support root cause analysis and process improvement.

## EDUCATION

### University of South Carolina

August 2023 - December 2026

B.S. Chemical Engineering · GPA 3.70 · FE Exam (Expected Fall 2026)

## PROJECTS

### Senior Chemical Process Analysis & Design

- Co-developed a conceptual process design for a cyclohexane production facility (40,000 metric tons/year) and authored a technical report outlining design methodology, assumptions, and engineering analysis.
- Conducted what-if analysis, chemical compatibility assessments, and consequence modeling to support safe chemical process design and hazard mitigation strategies.

## ORGANIZATIONS

### UofSC Marching Band

March 2023 - Present

- Performed with UofSC Marching Band at all home football games and select away games; Macy's Thanksgiving Day Parade (2024) and Metallica x EA Sports collab (2026)

### Gamecocks RUN

January 2025 - Present

- Completed the Myrtle Beach Half Marathon (2026)

## SKILLS

**Engineering & Technology** | Excel, GD&T, CAD, HYSYS, Git, VS Code, Web Application Development, Claude Code

**Professional** | Problem-solving, Communication, Adaptability, Teamwork, Continuous Improvement, Critical Thinking, Project Management