

Zoey Keller

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Education

Bachelor of Science, Mechanical Engineering

December 2026

North Carolina State University, Raleigh, NC

Minors: Environmental Science and Business Administration

Relevant Coursework: Thermodynamics, Fluid Dynamics, Heat Transfer, NDT/NDE, Economic Analysis/Statistics, Control Systems, Strength of Materials, VSTOL Aerodynamics

Professional Experience

HIPP Design + Consulting | Mechanical Co-Op | Raleigh, NC

Jan 2024 – Aug 2025

- Developed and revised mechanical system models using Revit and BIM standards for pharmaceutical and clean-space projects.
- Managed 2–3 concurrent mechanical design projects, prioritizing deliverables across overlapping client schedules.
- Conducted weekly quality-control reviews of 50+ engineering drawings, identifying discrepancies and coordinating revisions to maintain accuracy and code compliance
- Assisted with updating piping and instrumentation diagrams (P&IDs) and maintaining design documentation using Plant 3D and AutoCAD.
- Resolved redline markups on drawings and BIM models, reducing revision time and improving documentation accuracy.

NC State Housing | Community Assistant | Raleigh, NC

Aug 2025 - May 2026

- Managed a service desk for on-campus apartments
- Processed packages for residents and corrected problems with delivery services
- Controlled and distributed key access for various buildings
- Provided efficient customer service for residents and guests

Engineering Projects

Senior Design Project | Mechanical Engineering

NCSU Department of Mechanical & Aerospace Engineering

Aug 2025 – May 2026

- Designed a fully mechanical flush valve for a real-world client as part of a 3-person team.
- Built and tested rapid prototypes to iteratively refine the valve's flow performance.
- Produced detailed CAD models and fabrication-ready shop drawing packages for manufacturing and quality control.
- Presented monthly project updates, design reviews, and technical recommendations to faculty and industry sponsors.

Technical Skills

CAD & Design: SolidWorks, Revit, AutoCAD | *Plant 3D Engineering:* BIM Coordination, P&IDs, NDT/NDE | *Manufacturing:* Manual Lathe Operation, Machining, Fabrication & Assembly, Shop Safety | *Programming & Tools:* MATLAB, Python, Bluebeam Revu, Microsoft Office, Google Workspace