

AUDRA ANDERSON (they/them)

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EDUCATION

Bachelor of Science in Environmental Engineering Colorado State University, Fort Collins, Colorado
Minor - Diversity and Inclusion in Natural Resources Graduation: May 2026 GPA: 3.66
Study Abroad in the Netherlands: Sustainability in Engineering Systems and Design, Summer 2024

CERTIFICATIONS AND AWARDS

FE Environmental Engineering Exam Status: Passed
First Place Senior Design Project, recognized by the CSU Civil and Environmental Engineering Department
Dean's List: 2022-2023 Academic Year, Spring 2025, Fall 2025

RELEVANT EXPERIENCE

Cherokee State Wildlife Area Low-Tech Process-Based Restoration (LTPBR), Larimer Conservation District

Senior Design Project, Role: Project Co-Lead, ArcGIS and AutoCAD Specialist September 2025-April 2026

- Designed comprehensive AutoCAD designs for LTPBR structures to be used by contractors during construction
- Created maps using ArcGIS to inform site selection and provide to client for use on additional projects
- Co-led a small team of aspiring engineers, focusing on supporting digital modeling efforts
- Supported physical model and LTPBR structures study at CSU Hydraulics Laboratory
- Presented project design to LCD and CPRW as well as at CSU's Engineering-Days

Hydraulic Engineering Intern – Ayres Associates, Fort Collins

May 2025-February 2026

- Implemented successful data organization and streamlined workflows to support project management
- Participated in the writing and design of HEC-20 Stream Stability at Highway Bridges, Fifth Edition
- Worked alongside various DOTs to assess the stability of scour critical bridges and provided comprehensive next steps to ensure safety of community members
- Assisted in site overview for a variety of LTPBR projects, specifically focused on post-fire restoration

Govan Transportation Design – Engineers Without Borders Design Competition

Role: Design and Presentation Lead

Spring 2023

- Utilized existing infrastructure to support hypothetical project development
- Explored design location using ArcGIS to determine community needs and route effectiveness within and around the city center
- Supported the design of a sustainable and low-cost bus battery with implementation of accessible bus stops

Selected Engineering Design Projects

August 2022-Present

- Designed programs using VBA coding to track water flow and consumption as well as monitor waste and establish systems of effective removal
- Explored a river runoff system to support the native fish population in Lake Powell

SKILLS AND COURSEWORK

- Designed Numerical Modeling and Optimization frameworks for various projects utilizing VBA coding and Excel
- Created system designs using AutoCAD, ArcGIS Mapping, HEC-RAS, SMS, and other engineering graphic programs to support project proposals
- Managed teams within multiple facets of experience through effective communication and problem-solving
- Fluids, Global Climate Justice, DEI in Natural Resources, Ecological Engineering, Ecosystem Restoration

LEADERSHIP & INVOLVEMENT

President, Society of Women Engineers (SWE), CSU, Fort Collins

November 2025-Present

Vice President, Society of Women Engineers (SWE), CSU, Fort Collins

May 2025-Present

Mentoring Coordinator, Society of Women Engineers (SWE), CSU, Fort Collins

May 2024- May 2025

Fundraising Coordinator, Society of Women Engineers (SWE), CSU, Fort Collins

May 2023-May 2024

Volunteer Committee, SWE Introduce a Girl to Engineering, CSU, Fort Collins

October 2022-April 2023