

Andrew Evans

Senior Biosystems Engineer and Lifelong Learner

423 Lindsay Rd. Apt 502
Clemson, SC 29631
(843) 229-0685
Ace4@clemson.edu

EXPERIENCE

Barrier Island Engineering and Consulting, Clemson, SC —Intern **SKILLS**

May 2025 - Present

- Drafted and reviewed site plans using Civil 3D.
- Conducted permitting research to support project compliance.
- Performed CEPSCI inspection to ensure compliance to SWPPP standards.
- Resolved design challenges through iterative problem-solving.
- Produced deliverables balancing client expectations and site constraints.

Systems Thinking

AutoDesk

Stella

SuperPro

Data Visualization

Permaculture

CEPSCI

Solidworks CSWA

Welding

MS Office

Students for Stewardship, Clemson, SC —President/Founder

February 2024 - Present

- Established student-led organization focused on cultivating abundance.
- Directed project planning and implementation for stewardship initiatives.
- Coordinated volunteer teams for food forest and restoration projects.
- Organized educational workshops and community engagement events.
- Integrated regenerative design principles into project demonstrations.
- Built collaborative partnerships around resilience in the Upstate.

AWARDS

Innovation Competition
First place, Clemson University Sustainability Summit.

People's Choice Award
CAFL Cultivate Entrepreneurship competition rehearsal.

Board Of Trustees
Graduated at the top of class in high school.

Leadership Award
Honored for uncommon devotion as Student Body President..

Palmetto Fellows
Awarded scholarship for exemplary academics.

Clemson Sustainability Committee, City of Clemson, SC — Committee Member

August 2024 - Present

- Reviewed development proposals to support sustainable project approval.
- Collaborated with city managers to revise and strengthen tree ordinances.
- Recommended policies promoting ecologically sound community development.
- Evaluated strategies to maintain Clemson's Tree City designation.

CEVAC, Clemson, SC — Product Rollout Intern

August 2023 - January 2024

- Supported HVAC energy optimization through smart building controls.
- Utilized Power BI for energy data visualization and reporting.
- Assisted in product rollout tasks under senior engineering mentorship.
- Performed emissions calculations using environmental standards.
- Explored data visualization methods with Microsoft Power BI.
- Supported development of carbon accounting tools for sustainability initiatives.

EDUCATION

Clemson University, B.S. in Biosystems Engineering

August 2022 - May 2026

Senior Standing

Selected Academic Projects:

- Designed and fabricated a vermicomposter for Fundamentals of Biosystems Engineering.
- Modeled a continuous tallow refinery in SuperPro Designer for Bioprocess Engineering.
- Completed Rosgen stream classification and HEC-RAS modeling for Small Watershed and Hydrology.
- Conducted Capstone design for restoration of a local Clemson stream to address community concerns and implement ecological practices.

RELEVANT COURSEWORK

Engineering for Soil and Water Management - Bioprocess Engineering - Biological Kinetics - Geomatics - Thermodynamics - Fluid Mechanics - Structural Mechanics - Fundamentals of Biosystems - Computer-Aided Design - Soil and Water Conservation - Bio-Hydrogen Creative Inquiry - Calculus I-IV - Physics with Calculus I and II - ArcGIS - Statics - Dynamics - Programming and Problem Solving - Principles of Fabrication - Calculations for Ag Mech

Clemson University Biodiesel Creative Inquiry — Project Lead

Member: 2024 | Lead: 2025 – Present

- Led renovation of biodiesel trailer after years of inactivity.
- Directed project management, student teams, and system improvements.
- Coordinated education outreach and budgeting for program sustainability.

Clemson Extension, Columbia, SC — CEPSCI Certification

August 2024

- Completed state certification as Certified Erosion Prevention and Sediment Control Inspector.
- Applied soil and water conservation principles to site inspection standards.
- Strengthened foundation for future work in ecological restoration and stormwater management.

Bio-Hydrogen C.I., Clemson — Hydrogen from *Thermotoga Neapolitana*

- Inoculated *Thermotoga neapolitana* cultures to study hydrogen production.
- Tested CO₂ sparging effects on lactic acid byproduct formation.
- Analyzed fermentation outcomes using GC and HPLC.

South Florence High School, Florence, SC — High School Diploma

August 2015 - June 2020

I attended South Florence where I participated in NHS, Beta Club, Student government, Track & Field, Cross Country, etc. where I graduated in the top 5% of my class as Student Body President.

Local Networks & Collaborations

Students for Stewardship (Founder/President)

City of Clemson Sustainability Committee

Clemson University Tree Committee

Geometrix

Cleo Bailey Experiment (Zephaniah Smith)

Treehouse Trade School (Scott Bunn)

Clemson Engineers for Developing Communities (CEDC)

BE Club (Biosystems Engineering)

Blackberry Homestead

Global Influences & Learning Resources

Andrew Millison (Permaculture Design, Water Systems)

Zachary Weiss (Water Retention Landscapes, Biotic Pump)

Joel Salatin (Regenerative Farming)

Strong Towns (Resilient Communities & Infrastructure)

Acorn Land Labs (Off-grid Systems & Land Stewardship)

Matt Risinger (Building Science & Durable Construction)

Tech Ingredients (Applied Science & Systems Thinking)