

# Hannah Olson

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## Objective

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I am eager to secure an engineering internship to combine my academic learning with real-world practical experience to gain a strong foundation in sustainable design principles and accessible infrastructure, especially in the fields of water treatment, management, distribution, and transportation.

## Education

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**The University of Georgia College of Engineering, Athens GA**  
Civil Engineering

May 2027  
GPA: 4.0/4.0

**Coastal Pines Technical College, Waycross**  
Dual Enrollment

Aug 2021 – May 2023

## Relevant Experience & Projects

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**Mini Capstone Project,** Oct 2023 - Dec 2023

Led a team of 3 to create concepts for new EV charging locations within downtown Athens and analyzed the benefits and drawbacks of each concept then wrote and presented a 15 page report

**Engineering Academic Bootcamp,** Jul 2023

Was selected as 1 out of 13 students to attend a rigorous summer engineering program that provided an introduction of essential engineering skills through projects, hands on experience, and site visits.

- Designed and tested the ability of various household materials to filter water measured by PH and turbidity
- Simulated the effects of erosion on shorelines through a physical model and explored the cost of various preventative measures such as vegetation and retaining structures contrasted with their practicality
- Developed a simple password encryption program that utilized 3 different ciphers to encode data

**Designing a Traffic Light,** Dec 2023

- Directed a team of 4 students in programming the underlying logic of a traffic light
- Utilized transistor resistor logic to create a responsive miniature physical model of our traffic light

**Undergraduate Research,** Aug 2024 - Present

- Used MATLAB to graphically compute and display data about the elevation and LULC(land use land cover) of various transects along the East Coast for purposes of creating a model with ArcGIS and Ocean Mesh 3-D
- Used HEC-RAS to create models of the Mississippi River and simulate the flowrate and floodplain behavior under various conditions using data from 487 cross sectional geography slices

**NACME Autodesk Fusion 360 Bootcamp,** Jun 2024 – Aug 2024

Selected as 1 of 15 students to be awarded a stipend and participate in an intensive 8-week course in Fusion 360 to obtain certification in the software and another summer STEM class of choice

- Attended weekly professional development webinars in professionalism, teambuilding, and leadership
- Shadowed and networked with various employees of Autodesk and executives of NACME for 3 days

## Honors & Awards

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**First Year Scholars Program,** Aug 2023 - Present

Selected as 1 out of 15 students for a highly prestigious scholarship program focused on developing career readiness skills

**Presidential Scholar Recipient,** Aug 2023 - Present

## Clubs/Organizations

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**Member, Society of Asian Scientists and Engineers** Aug 2023 - Present

- Networked and attended several career building workshops at the Southeast Regional Conference Jan 2024

**Member, American Society of Civil Engineers** Dec 2023 - Present

- Attended Northeast Georgia Branch meeting pertaining to modeling flooding and networked Mar 2024

## Skills

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- Autodesk Inventor
- MATLAB Proficient
- Fusion 360 Certified User
- Java Proficient
- HEC-RAS
- HTML/CSS Proficient
- Mathematical Reasoning
- Problem Solving
- Critical Thinking