

Jackson Martin

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EDUCATION

Georgia Institute of Technology

B.S. in Environmental Engineering (Minor in Meteorology)

Atlanta, Georgia

Graduation: **December 2025**

GPA: **4.00/4.00**

- **Honors:** Graduation with Highest Honors, College of Engineering Honors Day Award, Faculty Honors List
- **Organizations:** Tau Beta Pi Honor Society, American Society of Civil Engineers (ASCE), American Concrete Institute (ACI), Association of Environmental Engineers and Scientists (AEES), Delta Upsilon Fraternity
- **Key Coursework:** Hydraulic Engineering, Hydrology, Water Quality Engineering, Environmental Impact Assessment, Construction Management, Synoptic and Mesoscale Meteorology, and Atmospheric Dynamics

WORK EXPERIENCE

Arcadis | Water Management Intern | Atlanta, Georgia | May 2025 - November 2025

- Supported river basin and watershed management through data analysis and modeling design
- Utilized ArcGIS Pro, HEC-RAS, and HEC-HMS to establish model boundaries and parameters from flow breaklines, land cover data, and soil data to generate a 2D mesh for hydrologic and hydraulic modeling
- Developed and implemented quality assurance and control methodologies for river water quality monitoring data in Excel to ensure accuracy and continuity, which improved model reliability and decision-making processes
- Researched and compiled a public-facing summary on fluvial, pluvial, and coastal flooding history in Virginia
- Documented existing drainage structures in ArcGIS Pro through desktop research to inform project design
- Mapped existing and proposed terrain data in ArcGIS Pro for use in hydrologic modeling and site evaluation

Research Assistant | Georgia Institute of Technology | Atlanta, Georgia | August 2024 - December 2024

- Captured hyperspectral and RGB-D images of hydroponic lettuce and monitored growth chamber conditions
- Reviewed scientific literature on computer vision and deep learning models in hydroponic agriculture systems and incorporated findings in experimental design and paper preparation

Kimley-Horn | Civil Intern | Alpharetta & Savannah, Georgia | May 2023 - August 2023, May 2024 - August 2024

- Designed site layout, utility, and stormwater plans for residential, commercial, and mixed-use projects in Civil 3D
- Built strong skills in site design, stormwater modeling, erosion control, project permitting, and consulting
- Proofread and verified civil plan sets by thoroughly reviewing plan details, calculations, and red lines
- Compiled comprehensive plans for existing conditions, demolition, grading, drainage, utility, and erosion control
- Facilitated project management by preparing detailed engineering reports, permitting documents, and application submittals while ensuring adherence to jurisdictional requirements for utilities, landscaping, and site design
- Communicated critical site assessment and engineering specifications to clients through extensive due diligence reports, encompassing geotechnical information, site surveys, municipal and legal code, and utility assessments

Georgia Tech Student Center | Tech Rec Attendant | Atlanta, Georgia | August 2022 – May 2025

- Provided excellent customer service to students and visitors by aiding and facilitating transactions
- Maintained the facility by managing equipment, resolving technical issues, and ensuring cleanliness

LEADERSHIP AND VOLUNTEER EXPERIENCE

American Concrete Institute Fiber-Reinforced Concrete Bowling Ball Competition

January 2025 - April 2025

Student Team Member | ACI Spring Convention, 2025

- Designed, fabricated, and tested two 5 kg concrete spheres with a mix design consisting of steel fibers, metakaolin, cement, fly ash, water, and superplasticizer with a compressive strength of 19,000 psi
- Represented Georgia Tech at the international convention and coordinated logistics and submittals

Delta Upsilon Fraternity

August 2022 – December 2025

Member Education Committee

November 2022 – December 2024

- Managed budgets of up to \$30,000 and booked accommodations for travel, lodging, and venues for 100 people
- Led and organized general meetings and facilitated communication between executive officers and the chapter

Georgia Tech American Red Cross Club

January 2022 – May 2024

Fundraising Director

May 2022 – December 2023

- Coordinated general body and fundraiser committee meetings, blood drives, and local volunteering opportunities
- Volunteered at blood drives and made hygiene kits, nutrition kits, and blankets to donate to homeless shelters

SKILLS/INTERESTS

Skills: Autodesk Civil 3D, ArcGIS Pro, HEC-RAS, HEC-HMS, Python, MATLAB, Microsoft Office, Meteorological Analysis

Interests: Sustainability & Resilience, Climatology & Meteorology, Transportation, Energy, Travelling, Photography