

Laura Valencia

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SUMMARY

Motivated Water Resources Engineer with a Bachelor's Degree in Civil Engineering, bringing hands-on experience through internships focused on regulating flood risk and optimizing stormwater infrastructure. Proven skills in hydrologic modeling and project management shape proactive solutions for sustainable water resource practices. Strong communicator dedicated to translating complex data into clear presentations for diverse stakeholders. Collaborative team player established connections with contractors and local authorities, ensuring compliance with guidelines while delivering high-quality engineering designs.

EXPERIENCE

Water Resources Engineering Intern June 2025 - Present
Greenway Solutions Atlanta, GA

Support surface water projects in assessing urban floods and developing efficient drainage systems under the guidance of experienced engineers. Responsible for preparing various documentation and analyzing hydrological data to improve community resilience against floods.

- Conducted advanced hydrologic models, evaluating urban areas for potential flooding hazards.
- Scheduled and managed meetings with project teams to align objectives and resources effectively.
- Collaborated with suppliers to gather materials needed for drainage system implementations.
- Created comprehensive reports illustrating analysis outcomes tailored for client understanding.
- Monitored site conditions, assisting in field assessments critical for design approval.
- Facilitated stakeholder communication to confirm compliance with local regulations and project timelines.

Engineering Intern June 2024 - May 2025
Blue Sky Environmental Atlanta, GA

Engaged directly in projects aiming to improve water management techniques while gaining significant exposure to floodplain analysis. Contributed to collaborative efforts across diverse teams fostering innovative solutions in environmental engineering.

- Assisted in creating detailed floodplain maps enhancing local disaster responses.
- Utilized HEC-RAS software for effective hydraulic modeling in the evolution of stormwater plans.
- Gathered field data crucial for input in watershed assessment activities.
- Designed technical specifications integral for bid packages, facilitating successful project rollouts.
- Co-authored project documents highlighting relevant findings from collaborations with senior engineers.
- Experimented with low-impact development approaches in brainstorming sessions improving community benefits.

LEADERSHIP & AWARDS

- Dean's List, University of Georgia, 2023-2026
- First Place, University Engineering Design Challenge, 2025

EDUCATION

Bachelor's Degree in Civil Engineering 2026
University of Georgia GPA: 3.7 Athens, GA

Coursework: Structural Analysis, Hydrology, Environmental Design, Fluid Mechanics

CERTIFICATIONS

- Fundamentals of Engineering (FE) exam 📅 2026
- Basic Life Support (BLS) Certification 📅 2025

TECHNICAL SKILLS

- **Hydraulic Software:** HEC-RAS, SWMM, MIKE URBAN
- **Modeling Tools:** ArcGIS, AutoCAD, REVIT
- **Project Management Software:** Microsoft Project, Trello, Asana
- **Data Analysis Tools:** MATLAB, R, Excel
- **Documentation Standards:** IEEE, ASCE, ISO
- **Design Applications:** SAP2000, Civil 3D, SketchUp
- **Regulatory Standards:** FEMA, NPDES, EPA

- **Field Equipment:** Flow Meters, Rain Gauges, Topographic Surveys
- **Surveying Techniques:** GPS Surveying, Total Stations, Aerial Photogrammetry
- **Research Methods:** Experimental Design, Statistical Analysis, Case Studies

SKILLS

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|-------------------------|-------------------------|------------------------|-----------------------------|
| • Hydrologic Modeling | • HEC-RAS | • Urban Planning | • Site Assessment |
| • Stormwater Management | • Technical Writing | • Data Analysis | • Environmental Regulations |
| • Floodplain Analysis | • Team Collaboration | • Project Coordination | • Risk Assessment |
| • AutoCAD | • Regulatory Compliance | • Research Skills | • Infrastructure Design |

PROFESSIONAL AFFILIATIONS

- Member, American Society of Civil Engineers (ASCE)
- Volunteer, Habitat for Humanity

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST