

Ezekiel Olson

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SUMMARY

Motivated civil engineering professional experienced in water and wastewater systems through academic projects and internships. Proficient in hydraulic modeling, system design, and regulatory compliance documentation. Demonstrated ability to communicate effectively with stakeholders, ensuring project success and adherence to industry standards. Eager to leverage engineering principles for sustainable solutions in water resource management. Committed to meaningful work that aligns with values of environmental stewardship and community impact within the field.

EDUCATION

Bachelor of Science in Civil Engineering

2026

University of California, Sacramento GPA: 3.5

Sacramento, CA

Coursework: Hydraulics, Environmental Systems, Water Resources Engineering, Urban Drainage Design

TECHNICAL SKILLS

- **Modeling Tools:** HEC-RAS, AutoCAD, EPANET
- **Programming Languages:** Python, JavaScript, SQL
- **Documentation Standards:** ISO 9001, ASCE Standards, AWWA Guidelines
- **Data Analysis Frameworks:** Excel, MATLAB, R
- **Quality Control Procedures:** Statistical Process Control, Six Sigma, Root Cause Analysis
- **Laboratory Equipment:** Spectrophotometers, Turbidimeters, pH Meters
- **Project Management Tools:** Trello, Microsoft Planner, Asana
- **Simulation Software:** MODFLOW, CADN2, Green Infrastructure modeling tools
- **Research Methodologies:** Field Surveys, Case Study Analysis, Experimental Design
- **Environmental Regulations:** Clean Water Act, Safe Drinking Water Act, Resource Conservation and Recovery Act

SKILLS

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|-------------------------|---------------------------|-------------------------------|---------------------------|
| • Hydraulic Modeling | • Project Documentation | • Design Software Proficiency | • Mobile Apps Development |
| • AutoCAD | • Effective Communication | • Stormwater Management | • Team Projects |
| • Data Analysis | • Field Data Collection | • Feasibility Studies | • Presentation Skills |
| • Regulatory Compliance | • Wastewater Treatment | • Research Skills | |

EXPERIENCE

Water Management Design Intern

June 2025 – August 2025

University Project

Sacramento, CA

Supported the design and analysis of stormwater systems focusing on flood mitigation strategies while enhancing efficiency in water resource management protocols. Collaborated across teams to ensure quality outputs aligned with sustainability objectives and technical requirements.

- Designed a stormwater management system using hydraulic modeling techniques, improving flood control in communities significantly.
- Conducted feasibility studies for water supply systems, analyzing data to optimize resource allocation.
- Collaborated with teammates to prepare compliance documentation for capstone projects, reinforcing knowledge of regulatory frameworks.
- Engaged in essential fieldwork to collect relevant data, directly influencing project accuracy and validity.
- Presented findings to faculty and peers, receiving commendations for clarity, thoroughness, and practical implications.
- Utilized AutoCAD and HEC-RAS software for impactful design and analytical tasks in real-time.

Water Quality Analysis Research Assistant

September 2024 – May 2025

Academic Research

Sacramento, CA

Contributed to critical research evaluating wastewater treatment processes, ensuring communication among diverse stakeholders to align methodologies with regulatory standards and enhance study credibility.

- Assisted in research focused on wastewater treatment efficiencies, significantly impacting knowledge base and practice.
- Developed comprehensive documentation for methodological frameworks and results, fostering transparency in research practices.
- Conducted laboratory experiments analyzing water samples, yielding insights into pollutant removal pathways.
- Collaborated closely with faculty and peers to refine research objectives, leading to stronger outcomes and collective learning moments.
- Participated in weekly research presentations that lifted communication skills and led to stronger team dynamics.
- Gained practical experience operating lab equipment tailored to water quality testing procedures, enhancing hands-on application skills.

Sustainable Water Solutions Developer

February 2025

Hackathon Project

Remote

Led collaborative efforts to create a water conservation mobile app, providing educational resources while engaging traits of effective teamwork and innovative problem-solving.

- Directed a team to conceptualize an inventive water conservation application, reflecting strong leadership and creativity.
- Designed user interfaces emphasizing user experience while integrating functionality prioritized by community needs.
- Conducted market research to validate features that would drive app adoption, aligning development with user interests.
- Presented the project at a regional hackathon, gaining recognition for creativity and social impact potential.
- Utilized programming languages like Python and JavaScript, demonstrating versatility and a range of technical competencies.

LEADERSHIP & AWARDS

- Dean's List, 2024, 2025
- Hackathon Winner, 2025

CERTIFICATIONS

- Engineer-in-Training (E.I.T.) 📅 2026
- Fundamentals of Engineering Exam Certificate 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Civil Engineering Society, UC Sacramento
- Volunteer, Local Community Water Conservation Initiative

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST