Sophia Olmeda

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Objective: To obtain an internship in Water Engineering to combine my passions for sustainability and infrastructure

EDUCATION

Columbia University

Bachelor of Science in Civil Engineering, Minor in Environmental & Sust. Engineering (GPA: 3.59). Expected May 2024

- Relevant Coursework: Art of Structural Design, Mechanics, Mech. of Solids, Fluid Mech., Earth's Enviro. Systems -Geology, Planning and Mgmt. of Hydrological Systems, Project Mgmt. for Civil Engineers, Social Movements, Better Planet By Design
- Awards: 2nd place Microplastic Design Challenge (2021), Dean's List (2020,2021), Named Scholar (2021-2022), Southern • California Edison Scholarship Recipient (2020)

INDUSTRY EXPERIENCE

EES Materials Process Lab

Undergraduate Lab Assistant

Performing strength and material performance tests on concrete specimen containing fly and bottom ash replacement to determine a concentration intended for an industrial scale

ASCE Construction Institute

Student Days Participant

- Formulated and presented a bid for the expansion of a US-17 highway including estimations, scheduling, project management plans, and responses to addenda addressing minimizing impact to a stream bed adjacent to the roadway
- Earned 1st place for our bid alongside my team, "Construction Institute Builders" for the Request for Proposal

Los Angeles Water Quality Control Board

401 Program Intern

Contributing to the review and filing of Clean Water Act Section 401 water quality certifications for basin maintenance, • construction of bridges, and over 100-acre housing developments using maps, state guidelines, technical reports, and other related application material

Engineers Without Borders

Engineering Research Intern

EWB Ghana Water Team & EWB Morocco Water Team, Cabinet Member

- Designed water infrastructure to improve water quality and access for more than 2,000 people in Amanfrom, Ghana
- Collaborating with Ghanaian and Moroccan WATSAN communities via surveys to generate O&M manuals
- Mapped spigot paths in EPANET, analyzed water quality data, and used hydrological calculations for filtration modeling

Durham, NC (Remote COVID-19)

June 2021 - August 2021

- Researched and developed an Excel database mapping wastewater infrastructure and market indicators throughout the U.S.
- Generated an international database for water sanitation and clean technology availability

PCL Construction-Kaiser School of Medicine

Civil Engineering Intern

374Water

Coordinated technical meetings and executed expense reports tracking site costs and project budgeting for contractors • and engineers for the construction of the Kaiser School of Medicine

SKILLS & INVOLVEMENT

Programming Software & Tools: Python, AutoCAD, EPANET, Microsoft Office Suite (Word, Excel, PowerPoint, Teams), Slack Languages: English, Spanish

Interests: Latinx and First-Generation Student empowerment, Travel, Cooking Organizations: Society of Hispanic Professional Engineers, Society of Women Engineers, Multicultural Affairs Board, ASCE



September 2022 - Present

New York, NY

Los Angeles, CA

May 2022 – Present

Charleston, SC

July 2022

New York, NY September 2020 - Present

Pasadena, CA

August 2019