



Exponent®
Engineering & Scientific Consulting

Shana Roostaie

Analyst | Construction Consulting
Oakland

+1-510-907-5864 tel | sroostaie@exponent.com

Professional Profile

Ms. Roostaie is an Analyst in the Construction Consulting Practice at Exponent. She earned dual bachelor's degrees in both Civil and Environmental Engineering from the University of California, Davis with a focus on environmental and water resources.

Ms. Roostaie's academic experience includes research determining methane emission impacts from various reservoir sediment deposits within Santa Clara County in Northern California.

Before joining Exponent, Ms. Roostaie worked as a Civil Engineer with HBK Engineering LLC. designing underground utility systems such as EV chargers and residential gas service lines in the states of California, Nevada, and Colorado. She led and managed a team for an international construction project in Kenya designing infrastructure to provide potable water to a community of 3,500 residents as part of her volunteer work with Engineers Without Borders.

Academic Credentials & Professional Honors

B.S., Civil and Environmental Engineering, University of California, Davis, 2021

Licenses and Certifications

Certified Associate in Project Management (CAPM)

Prior Experience

Graduate Civil Engineer, HBK Engineering LLC., 2021-2022

Undergraduate Research Assistant, Environmental Dynamics Lab at UC Davis College of Engineering, 2020-2021

Civil Engineering Intern, Advanced Engineering and Consulting, Summer 2017 & Winter 2019

Professional Affiliations

2018-2021 Engineers Without Borders – Kenya Project Lead & Bolivia Budget Lead

2020-2021 Society of Women Engineers – Peer Mentor

Languages

Farsi

Spanish

Project Experience

Managed a group of approximately 30 engineers on a water sanitation project in Western Kenya and maintained proper international communication to ensure the project was meeting the needs of the residents to design and construct a solar-powered borehole to provide filtered water to communities residing near Lake Victoria.

Designed and created construction plans of various EV charging systems and gas service lines in three different states, making sure to follow the specific land and transportation regulations within each state.

Supported the project timeline, budgeting, and material calculations of an ongoing latrine construction project in Parque Colani, Bolivia.

Created a plan and procedure to target the removal of invasive species in Lake Tahoe to improve water clarity.

Performed various laboratory procedures to assist a research project located in seven different reservoirs within Santa Clara County in Northern California and determined methane emission values and impacts from sediment deposits.