

Exponent®
Engineering & Scientific Consulting

Daniel Giggy

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Professional Profile

Mr. Giggy is a Manager with Exponent's Construction Consulting Practice with experience in utility construction project and program management, wildfire mitigation risk analysis, data analytics and reporting, environmental science and management, and applied geospatial science.

Daniel has five years of progressive experience leading teams and managing utility projects. He has expertise in project management, scheduling, project controls, data management and reporting, and risk management for electric utility construction. and has managed large project teams in the delivery of large multi-year capital projects in California.

Daniel managed the design and maintenance of automated reporting tools for the largest electric distribution undergrounding programs in California. He led the creation of a broad suite of construction management, estimating, cost variance, management scorecard, and program management dashboards and trackers, including multi-year efforts to update and integrate new data into existing systems of record.

In addition, Daniel has managed Electric Transmission Tower Replacement projects with work schedules ranging from 2 years to over 10 years, and budgets ranging from $5M to $75M. Daniel's portfolio includes projects with marine construction, underground construction, environmental restoration, federally protected lands and navigable waterways, and right-of-way permitting complexities.

Daniel has developed maps for electric undergrounding, land planning, and outage management programs, and has experience working with natural resources and wildfire GIS data. He has led geospatial and program management data design and delivery in response to federal regulatory requests, and has managed teams of GIS Data Analysts in the design, QC, and production of geospatial data for public, internal, and federal reporting needs.

Prior to joining Exponent, Daniel worked for Apple as a Geospatial Technician, and for Pacific Gas & Electric as a Workstream Program specialist. He previously graduated from the University of San Francisco with a MS in Environmental Science and Management. He is a PMI certified Project Management Professional.

Academic Credentials & Professional Honors

M.S., Environmental Management, University of San Francisco, 2018

B.A., History, San Diego State University, 2011

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Prior Experience

Workstream Program Specialist, Pacific Gas & Electric, 2023-2024

Manager, Exponent, 2019-2023

Geospatial Technician, Apple, 2018-2019

Operations Coordinator, Thumbtack, 2016-2018

Professional Affiliations

Association of Environmental Professionals (AEP)

Construction Management Association of America (CMAA)

Project Management Institute (PMI)

Project Experience

Managed team of data scientists and program managers in developing geospatial data portfolio for a ten-year electric distribution undergrounding plan in response to federal regulatory request. Developed data management and production processes, schedule and risk register.

Managed work tracking tools for large electric distribution underground construction program. Maintained and updated core workplan databases and supervised integration of data management tools with other systems of record. Created new program management tools and change control tools and processes

Developed reporting portfolio for larwildifre rebuild electric undergroudning, pr, including both individual team management tools and leadership reports tracking KPIs in schedule, financials, and construction unit actuals. Built and maintained systems of record for electric distribution work tracking. Trained users of automatic reports and updated data management protocols with evolving program needs.

Managed multi-year project to replace transmission towers line over a large water crossing, including design and construction of underwater conduit and acquisition of easements on federal and state protected lands.

Managed multiple capital investment projects replacing electric transmission towers in wetland, estuarine, and urban environments, over a combination of three years and with combined budget in excess of $40M. Managed land planning and engineering teams through multiple redesigns, scope changes, and schedule changes to accommodate third party capital investment on joint owned assets, as well as State and Federal permitting and environmental restrictions.

Managed team of data entry technicians in the transcription of several decades' worth of archival Cathodic Protection unit maintenance record for the development of risk estimation algorithms to assess vulnerability of underground gas utilities.

Additional Education & Training

Martin County Sheriff's Office Search and Rescue Team