

Exponent®
Engineering & Scientific Consulting

Omar Shabana

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Professional Profile

Mr. Shabana's construction experience is highly diverse, encompassing a wide range of sectors, including utilities, oil and gas, fueling systems, tank farms, infrastructure, and transportation. His extensive field background is complemented by his research contributions and thought leadership, demonstrated through the publication of multiple research papers. Notably, his research has often focused on strategies to proactively mitigate claims and disputes, particularly within the realm of mega transportation projects in the United States.

Prior to Exponent, Mr. Shabana made substantial contributions to large-scale utility projects, including the removal and replacement of gas transmission and distribution lines for prominent utility clients. Mr. Shabana’s expertise extends to the planning, execution, and maintenance of fueling systems tailored to the unique requirements of various branches of the U.S. military. Additionally, he has played a pivotal role in both the construction and repair of fuel tanks and tank farms, forging collaborative partnerships with major oil companies across the United States.

Academic Credentials & Professional Honors

M.S., Civil Engineering, California State Poly University, Pomona, 2021

B.S., Construction Management, California State University, Fresno, 2020

Sigma Lambda Chi Honor Society

Academic Appointments

Research assistant at California State Polytechnic University, Civil and Construction Engineering Department, 2020-2021.

Prior Experience

Project Engineer, Quanta Services – Island Mechanical Corporation, 2022-2023

Project Engineer, Quanta Services – Underground Construction, 2020-2022

Professional Affiliations

American Society of Civil Engineers

Association of General Contractors

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Publications

Shabana, O., Gad, G. M., & Minchin, E. (2024c). Impact of project delivery methods on risk allocation during the planning phase of Transportation Projects. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 16(4). https://doi.org/10.1061/jladah.ladr-1109

Shabana, O., & Gad, G. M. (2023). Mitigating claims and disputes for public–private– partnership transportation projects in the United States. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 15(3).

Shabana, O., & Gad, G. (2022). Major causes of claims and disputes on Transportation Public– Private Partnership Projects. Construction Research Congress 2022.

Gad, G. M., Dawoody, H., Shabana, O., Ryan, C., de la Peña, M., Caplicki, E., Minchin, E., Planeta, C., & Weber, W. (2022). Managing enhanced risk in the Mega Project World.

Shabana, O. (2021). Mitigating claims through contract risk allocation on public-privatepartnership (P3) Transportation Projects. ScholarWorks.

Presentations

Shabana, Omar, & Gad, Ghada. Mitigating claims and disputes for public–private– partnership transportation projects in the United States. Poster presentation, International LADR Workshop, Gold Coast, Australia, 2022.

Shabana, Omar, & Gad, Ghada. Major causes of claims and disputes on Transportation Public– Private Partnership Projects. Poster presentation, Construction Research Congress, Arlington, Virginia, 2022.

Project Experience

Managed the removal and replacement package for a diverse range of distribution and transmission utilities, that were a critical component within a major infrastructure project in California.

Managed the construction of new gas transmission and gas regulator station projects. These endeavors were essential in expanding and optimizing gas infrastructure, contributing to the efficient and reliable supply of natural gas to communities and industries.

Managed the construction of multiple new oil and fuel tanks as a pivotal component of an improvement project aimed at enhancing tank farm infrastructure. This initiative contributed to the expansion and modernization of storage facilities, ensuring operational efficiency and compliance with industry standards.

Managed the defueling and repairs of one of the largest federal fueling facilities in the United States. This crucial undertaking involved overseeing the necessary repairs to ensure uninterrupted military branch operations, highlighting the importance of effective project management in support of our nation's defense.

Managed new construction and repair projects for fueling systems, serving both civilian airplanes and military assets such as airplanes, fighter jets, and battleships. These endeavors were pivotal in ensuring the seamless operation and maintenance of critical aviation and military infrastructure.

Editorships & Editorial Review Boards

Construction Research Conference, Reviewer, 2022