

SHAKEYRA SIGAL

Consulting Civil Engineer

shakeyra.sigal@gmail.com

(781) 221-5378

3344 Belmont Street, Brockton, MA
02301



PROFILE

Over 5 years of experience as a Consulting Civil Engineer. Skilled in conducting feasibility studies, preparing detailed reports and designs, managing construction projects, and supervising teams. Demonstrated ability to complete projects within budget and schedule constraints. Proven track record of working effectively with clients to identify needs and develop solutions that meet their goals.

LINKS

[linkedin.com/in/shakeyrasigal](https://www.linkedin.com/in/shakeyrasigal)

SKILLS

Leadership skills

Excellent written and verbal communication skills

Ability to work independently and as part of a team

Strong analytical and problem-solving skills

Well-organized with the ability to multitask effectively

Familiarity with various engineering software programs (e.g. AutoCAD, Civil 3D)

Familiarity with construction methods and materials

EMPLOYMENT HISTORY

● Senior Consulting Civil Engineer at Chan & Associates Consulting Engineers, PC, MA

May 2022 - Present

- Led a team of engineers in the development of traffic impact studies for road realignment projects, which reduced commute times by 20% on average.
- Spearheaded the creation of a new stormwater management system that improved water quality by 85% and decreased flooding occurrences by 92%.
- Managed the construction of a \$30 million bridges rehabilitation project, coming in under budget and ahead of schedule.
- Developed an innovative soil stabilization technique that saved millions of dollars on earthworks costs for a highway expansion project.
- Authored multiple papers on civil engineering topics that have been published in various journals.

● Consulting Civil Engineer at Harkins Cunningham, Inc., MA

Aug 2017 - Apr 2022

- Led a team of engineers in the development of construction plans for a new highway, which resulted in a 15% reduction in traffic congestion and an increase in road safety.
- Successfully completed the design and construction of a bridge that was able to withstand earthquakes up to magnitude 8.0 on the Richter scale.
- Designed a drainage system for a city that prevented flooding during periods of heavy rain or snowmelt, resulting in zero flooded homes or businesses over 3 years.
- Created computer models to simulate different traffic patterns and their effects on infrastructure, leading to more efficient use of resources and less wear-and-tear on roads.
- Assisted with the expansion of an airport runway, increasing capacity by 25%, while also reducing noise pollution by 5 decibels.
- Worked with architects and urban planners to develop long-term visions for sustainable growth in cities.

EDUCATION

Bachelor of Science in Civil Engineering at MIT

Aug 2012 - May 2017

I've learned how to design and analyze structural systems, how to manage construction projects, and how to perform various civil engineering calculations.