

# ABOLFAZL NAJAFI

Civil/ Geotechnical Engineer

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Isfahan

IRAN

## WORK EXPERIENCES

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**Geotechnical Engineer**, ASAKAV Engineering Company [Full-time]

*Oct 2022 – Now, Esfahan, Iran*

Geotechnical Staff Engineer, finite element technician, field engineer, and soil laboratory supervisor.

**Geotechnical Engineer**, Mehrab Sepahan Consulting Engineers Company [Part-time]

*June 2022 – July 2022, Esfahan, Iran*

## EDUCATION

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**M.Sc Iran University of Science and Technology, Geotechnical Engineering**

[September 2019 – October 2022]

**Thesis:** “Numerical modelling of caisson foundation for Offshore Wind Turbines located in a liquefiable soil”

**Advisor:** *Prof. M. H. Baziar*

**Grade:** 3.77/4 (16.43/20)

**B.Sc Islamic Azad University, Najafabad Branch, Civil Engineering**

[September 2015 – July 2019]

**Grade:** 3.65/4 (17.49/20)

## PUBLICATIONS

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### *Journal Papers*

1. “Numerical Simulation of bucket foundation of offshore wind turbines, Sited on an inclined liquefiable seabed: A parametric study” (*In Preperation*)

### *Conference Papers*

1. Sina Lahijani Afkham, Masoud Hajialilue Bonab, Abolfazl Najafi ,“Modelling Initial Elastic Modulus of Sand-EPS Mixtures Using Evolutionary Polynomial Regression” *39th National Congress and 4th International Congress of Earth Sciences*, December 2020. [[Civilica](#)]
2. Sina Lahijani Afkham, Abolfazl Najafi, “A polynomial model for predicting shear wave velocity from cone penetration test data” *3rd International Conference on Civil Engineering, Architecture and Urban Management in Iran*, April 2020. [[Civilica](#)]

## DESIGN EXPERIENCES

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- Deep Soil Mixing design of a liquefiable site in Kargan, Hormozgan, *Jul 2022*
- Retaining wall design of a 14m depth excavation with nailing method, *Jun 2020*
- One dimensional seismic site response analysis using DEEPSOIL, *Dec 2019*
- Stability and Seepage analysis of an earth dam, *Jun 2020*

## COMPUTER SKILLS

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- **Civil Engineering:** CSI "ETABS, SAFE, SAP2000", Abaqus and AutoCAD
- **Geotechnical Engineering:** OpenSees, FLAC (2D), PLAXIS (2D & 3D), GeoStudio
- **Programming Languages:** Python (Numpy, Pandas & Matplotlib) and Tcl
- **Others:** MS Office, Gnuplot, GiD, gmsh, ParaView, Inkscape and RockWorks

## RESEARCH INTERESTS

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- Soil Dynamics and Geotechnical/Earthquake Engineering
- Liquefaction Lateral Spreading and Site Effects
- Offshore Geotechnics and OWT Foundations
- Numerical (FEM, DEM, MPM) Simulation
- Slope Stability and Deep Excavations

## REFERENCES

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1. Prof. Mohammad Hassan Baziar  
*Geotechnical/ Earthquake Engineering, IUST University*  
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Narmak, Tehran, I.R.16846-13114, Iran  
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2. Asst. Prof. Bahram Nadi  
*Geotechnical Engineering, IAUN University*  
Address: Faculty of Civil Engineering, Azad University of Najafabad, University  
Blvd., Najafabad, Isfahan, I.R.85141-43131, Iran  
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