

ALIREZA AFKHAMI-AGHDA, M.A.Sc, M.C.P, P.ENG

Language: English, Farsi
Tel.: 778-321-0639

Email: alireza@afkhami.com , afkhami_54@yahoo.com

HIGHLIGHTS

18 years of experience in project management, proposal and report writing, field reviews, engineering analyses, retaining wall design, numerical analysis, etc

EDUCATIONS

M.A.Sc. Geotechnical Engineering: September 1997 to March 1999

Tehran Polytechnic University (Amirkabir), Civil Engineering Department, Tehran, Iran; Research Topic: "Dynamic analysis of reinforced soil in seismic conditions" a numerical modeling and analysis using LUSAS Software.

B.Sc. Civil Engineering : September 1992 to July 1997

Sharif University of Technology, Civil Engineering Department, Tehran, Iran.

Design of Piled Foundation : Short Course: May 2012

by Dr. Bengt Fillenius, Vancouver, Vancouver, Canada

Supplementary Soil Liquefaction : Short Course: November 2010

by Prof. Boulanger, Vancouver, Canada

Soil Liquefaction Short Course: December 2009

by Prof. Idriss & Prof. Boulanger, Vancouver, Canada

JOB EXPERIENCE

HORIZON Engineering Inc.(July 2014-now) <http://www.horizoneng.ca>

Senior Geotechnical Engineer

Tetra Tech EBA, CANADA (January 2012-July 2014) <http://www.eba.ca>

Project management, seismic analyses, field reviews, pile design, etc. Project highlights: ILM, Evergreen Line, Northeast Anthony Henday

HORIZON Engineering Inc.(June 2008-January 2012) <http://www.horizoneng.ca>

As a fulltime intermediate geotechnical engineer I have been responsible for:

- Field assessment including supervision on drilling / test pit excavation, and field reviews for subgrade, excavations, pile driving, ground improvement, etc.; borehole log drafting using gINT
- Preparations of proposals (scope of services, budget estimate, etc)
- Preparation of geotechnical reports (bearing capacity and settlement, pile design, soil liquefaction assessment, CPT interpretation, SPT and DCPT corrections and correlations, shoring design, etc.)
- Designing segmental retaining wall (Lock Block, Deltalok, and Allan Block)
- Slope stability analysis and MSE wall design (with or without geogrid) using ReSSA, SlopeW (GeoSlope) and Xstable programs
- Pile analysis using LPILE software
- Project management and liaising with client and other consultants; client development

NOVO TECH SOFTWARE Ltd. (April 2009-Now on my spare time) <http://www.novotechsoftware.com>

I started this company in April 2009 with the objective of development and marketing of geotechnical engineering software: SPT correlations program, soil liquefaction analysis program, CPT interpretation software, 3D soil profile generator, geotechnical formulas collection, as well as lab test web application and SPT correlation iPhone App.

SOILVISION Systems Ltd.(October 2007-June 2008) <http://www.soilvision.com>

- Providing geotechnical engineering services including “Numerical modeling” of heap leach material, unsaturated soils, analyzing and interpreting climate data, regular presentations of geotechnical calculations, working with Surfer/AutoCAD drawings, etc.
- Software development

(Part-time from January 2007 to September 2007; Fulltime since October 2007 to June 2008)

AZMON KHAK PEY Geotechnical Eng. Co., Tehran, Iran (2003 - 2007)

- Project Manager (supervising field crew, lab technicians and junior engineers, liaising with clients and structural/architectural engineer)
- Processing soil laboratory tests
- Writing proposals and geotechnical reports (bearing capacity, liquefaction, pile design, etc.)
- Projects such as buildings, high-rises, pipelines, refineries, drainage systems, factories, etc.
- Field review (excavations)

Tehran Engineering and Technical Consulting Organization, Tehran, Iran (1999 – 2004)

- Project Manager (supervising 3 engineers, contact with clients and structural engineers)
- Processing soil laboratory tests and site /laboratory investigations
- Writing geotechnical reports, selecting the best foundation type, earth pressures, bearing capacity and settlement, soil liquefaction, etc.

This organization (<http://www.tetco.org>) is a subdivision of Tehran municipality. Projects mostly consisted of bridges, multi-storey parking, concrete water courses and small buildings in Tehran.

MANDRO Geotechnical Eng. Co., Tehran, Iran (1997 - 1999) <http://www.chase-mandro.com>

- Providing geotechnical study reports for a variety of structures including urban and industrial buildings, refineries, water canals and pipelines. Soil tests assessment and writing geotechnical reports (bearing capacity, liquefaction, pile design, etc.)
- Assessment of laboratory and field tests. Six months working in “South Pars Field Development (Persian gulf)” project as a field inspector under direct supervision of TOTAL company management team.

PEY ABKAV Geotechnical Eng. Co., Tehran, Iran

Providing geotechnical study reports (some including geological and seismic studies), processing laboratory tests and managing projects such as high rise buildings and hotels. (Occasional part-time consultation since 2001 to 2003).

JARF ANDISH Systems Co., Tehran, Iran (2003-2007 on my spare time)

Co-founder; developing two commercial geotechnical programs currently being used by more than 40 geotechnical companies in Iran including “Road and Transportation Ministry”. For a complete description of these software and their programs features please visit:

- Soil Mechanics Test Processor software : <http://www.novolab2.com>
- PEYSANJ Geotechnical Calculation software : <http://www.peysanj.com>

AFFILIATIONS / DESIGNATIONS

- **APEG BC** Member (P.Eng)
- **Vancouver Geotechnical Society**, Member, Since 2008
- **Canadian Dam Association**, Member, Since 2008
- **International Society for Soil Mechanics and Geotechnical Engineering (ISSGE)**, Member, Since 2006
- **Iranian Construction Engineers Organization**, Member, Since 2007
- **Iranian Society of Geotechnical Engineers (IGS)**, Member, Since 1998

SEMINARS

I have presented the following seminars:

Introducing SMTP Soil Mechanics Software, for Geotechnical engineering society of Mashhad city, Iran (Aug. 2007), Road and Transportation Ministry, Iran (Jan. 2007)

Application of SMTP software by using GIS data, for Tehran Post-disaster Management Organization, Iran (Aug. 2007)

Introducing PEYSANJ Geotechnical Software, for Road and Transportation Ministry, Iran, Tehran (Feb. 2007)

Installation and Training Courses for SMTP and PEYSANJ Software, Road and Transportation Ministry, Iran
(March. & April 2007)

PUBLICATIONS / CONFERENCES

- **Retrofit of an Existing Steel-Reinforced MSE Wall**, Alireza Afkhami-Aghda, Brian Hall, Amri Benjamin, 67th Canadian Geotechnical Conference, September 2014 (Oral Presentation).
- **A Case Study of Ground Improvement Using Impact Piers Method**, Alireza Afkhami-Aghda, Troy Issigonis; 62nd Canadian Geotechnical Conference, September 2009 (Oral Presentation).
- **A Case Study of Ground Improvement Using Impact Piers Method**, Alireza Afkhami-Aghda, Troy Issigonis; Geotechnical News magazine, March 2010.
- **Canadian International Geotechnical Conferences (2011, 2013, 2014)**, tradeshow exhibitor(Novo Tech Software).
- **3rd International Conference of Geotechnical Engineering**, tradeshow exhibitor: introducing PEYSANJ geotechnical software, Iran, Tehran, 2003.
- **Introduction to PEYSANJ Geotechnical Software**, published in “Sakht o Saz” and “Web” magazines, Iran, 2001.

ADDITIONAL CERTIFICATES



Microsoft® Certified Professional (MCP)

Designing and Implementing Desktop Applications with Microsoft® Visual Basic, (since Nov. 2000)



International Computer Driving License (ICDL)

(Since March 2003)

REFERENCES

References are available upon request