

ALIREZA AFKHAMI-AGHDA

Language: English, Farsi

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OBJECTIVE: Geotechnical engineer position in Vancouver.

HIGHLIGHTS

13 years experience in managing geotechnical engineering projects, supervision of field and laboratory tests, preparing geotechnical reports, liquefaction and CPT analyses, field reviews, shallow foundation and pile bearing capacity and settlement analysis. Familiar with geophysics tests, pressure-meter test, etc.

EDUCATIONS

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

Tehran Polytechnic University (Amirkabir), Civil Engineering Department, TEHRAN, Iran; Supervisor: Dr. Ali Rahaii. Thesis: "Dynamic analysis of reinforced soils under earthquake conditions"; Numerical modeling using LUSAS Software.

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

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

Soil Liquefaction Short Course: December 2009

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

JOB EXPERIENCE

HORIZON Engineering Inc., CANADA (June 2008-Now) <http://www.horizoneng.ca>

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

- Field assessment and reviews including supervision on drilling/sampling, subgrade, excavations, pile driving, ground improvement, etc.
- Preparing the proposals
- Understanding work safety at sites
- Preparing proposals and 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)
- Micropile/Shoring installation supervision and testing (PTI)
- Slope stability analysis and reinforced soil walls design (with or without geogrid) using ReSSA, SlopeW (GeoSlope) and Xstable programs
- Testhole log drafting using gINT
- Pile analysis by LPILE software
- Project coordination and meeting with client and other consultants

NOVO TECH SOFTWARE Ltd., CANADA (April 2009-Now) <http://www.novotechsoftware.com>

Co-Founder; development of geotechnical engineering software: SPT Correlation Program, Liquefaction Analysis Program, CPT Interpretation Software, etc.

SOILVISION Systems Ltd., CANADA (Oct. 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 up 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, 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)

Co-founder and Technical Manager. Developing two commercial geotechnical software. These software are currently being used by more than 20 reputable 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.smtip-soft.com>
- PEYSANJ Geotechnical Calculation software : <http://www.peysanj.com>

AFFILIATIONS

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)

Using SMTP geotechnical software in conjunction with GIS in Tehran, 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

- **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
- **PEYSANJ Software User Manual**, 2006
- **SMTP Software User Manual**, 2006
- **3rd International Conference of Geotechnical Engineering**, tradeshow booth: 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 Degree)

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



International Computer Driving License (ICDL Degree)

(March 2003)

REFERENCES

References are available upon request.