

Curriculum Vitae

1) Personal

Full Name: Navid Khaiat

Profession: Geotechnical Engineering

Nationality: Iran

Date of Birth: 6 July, 1978

Place of Birth: Khoramshahr, Iran.

Address: Golestan Bolvar, Farhangshahr Square, Islamic Azad University, Ahvaz Branch.

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2) Scientific and Administrative Positions

- Assistant professor, Grad 7-full-time academic member in Islamic Azad University, Ahvaz branch, since 2004.
- Head of undergraduate department in Civil Engineering., Islamic Azad University, Ahvaz branch. 2010 – 2012.
- Member of Research Council in Islamic Azad University, Ahvaz since 2010.
- Observer and member of control group in geotechnical engineering organization of Khuzestan, since 1386.

3) Education:

- 1- PhD in Civil Engineering, Geotechnical Engineering. University of Islamic Azad, Tehran Science and Research Branch. Tehran, Iran. 2004-2010.
- 2- M.Sc. in Civil Engineering, Shahid Chamran University 2001-2003.
- 3- B.Sc. in Civil Engineering, Shahid Chamran University, Ahvaz, Iran. 1996-2000

4) Research and laboratory background

4-1) PhD thesis title: Investigation in the effect of inherent and induced anisotropy on the undrained behavior on Silt-Sand mixture

Supervisor: Dr. Abbas Ghalandarzadeh, A, Associate professor in Tehran University

Advisor: Dr. Mohammad Kazem Jaefari, professor of International Institute of Earthquake of Iran, Geotechnical faculty

4-2) M.Sc. thesis title: study of Shear strength properties of mixtures of bentonite-sand
Supervisor: Dr. Mohammad Sirius Pakbaz, Associate professor in Shahid Chamran University,
Ahvaz

Advisor: Dr. Reza ebn Jalal, Assistant professor in Shahid Chamran University, Ahvaz

5) Experience working with laboratory equipment :

- Conducting over 150 experiments using Hollow Cylinder Torsion Shear Tests during the PhD thesis.
- Conducting more than 50 tests using tri-axial test during the Master's thesis.
- Conducting more than 50 tests using Direct Shear Tests during master's thesis, research and Projects.
- Conducting different physical and chemical characterization experiments using soil lab equipment during the Master's thesis.

6) Journal Publications

- 1) **Khayat, N.**, Ghalandarzadeh, A., Jafari, M.K., 2013. GRAIN SHAPE EFFECT ON THE ANISOTROPIC BEHAVIOR OF SILTY SAND. Geotechnical Engineering Journal, Institution of Civil Engineers (ICE), (ISI, IF=0.67)
- 2) **Khayat, N.**, Alboshoke, S, M, (2013). “Effect of Fine Content on Drained Shear Strength of Mix Materials “Advances in Environmental Biology (Nov 2013). (ISI, LISTED)
- 3) Abbasi L. A., **Khayat N.**, (2013), Performance evaluation and ranking methods for measuring soil liquefaction potential using data envelopment analysis (DEA) and hierarchical analytics (HAP), scientific –research journal of research in operation and its applications.

7) Conferences Proceeding Publications

- 1) **Khayat, N.**, Ghalandarzadeh, A, (2012). “EFFECT OF SILT CONTENT ON THE ANISOTROPIC BEHAVIOUR OF SILT-SAND MIXTURES”, 19th International conference of GEOMAT, Kuala Lumpur, Malaysia
- 2) **Khayat, N.**, Pakbaz, M.C, (2008) . “THE EFFECT OF SAND ON STRENGTH OF MIXTURES OF BENTONITE-SAND”, International conference of GEO-CHIANGMAI, THAILAND
- 3) **Khayat, N.**, (2014) . “EVALUATION OF DRAINED SHEAR STRENGTH OF BENTONITE-SAND MIXTURE”, International conference of waste Amsterdam Poland (2014)

- 4) Khoramnya, A., Pakbaz, M., C., Khayat, N. (2010) "Effect of curing time of soil-cement mixed on clay Consolidation Parameters". Chamran University in Ahvaz. Third National Conference on Irrigation and Drainage Networks.
- 5) Halabisaz, B., **Khayat, N.**, (2007), "The impact of geotechnical studies' mode and operational issues related on irrigation and drainage network down time by providing samples" Research Institute of Agricultural Engineering, First National Seminar of Irrigation and Drainage Networks' Geotechnical Issues.
- 6) **Khayat, N.**, Kademi, F., Halabisaz, B., (2009), "Different ways of implementing and construction of irrigation canals in sand." Research Institute of Agricultural Engineering, Second National Conference on Irrigation and Drainage Networks geotechnical issues.
- 7) **Khayat, N.**, Hojati, B., Moetamed, S., (2011), "Improved technology in Azadegan plain soils and management to operations of the compound sections of embankment." Research Institute of Agricultural Engineering, Third national seminar on geotechnical issues of irrigation and drainage networks.
- 8) Rastgu, D., Goodarzi, A., **Khayat, N.**, (2011), "The cause of displacement occurred in reverse siphon pipe Caron and administrative solutions to solve the problem." Research Institute of Agricultural Engineering. Third National Conference on Irrigation and Drainage Networks geotechnical issues.
- 9) Aryan Rad, A., **Khayat, N.**, (2011), "Zonation of Khuzestan plain in terms of liquefaction and problematic soils." Research Institute of Agricultural Engineering. Third National Conference on Irrigation and Drainage Networks geotechnical issues.
- 10) Borumandzadeh, B., Khayat N., (2010), "Study of pipe Jacking and water and waste water feasibility in Ahwaz." Islamic Azad University, Ahvaz branch. First National Conference on Water and wastewater science and technology.
- 11) Mohebatzadeh, A., Khayat N., Mashal, M., (2010), "Karkheh Earth Dam Seepage Analysis using seep/w software and verify its feasibility." Sari Agricultural Sciences and Natural Resources University, National Conference on Water Resources Management in coastal areas.
- 12) Taemiri Ahvazi, R., Hojati, B., Moetamed, S., **Khayat, N.**, (2012), "Management of water channels in embankment using tow cross-section alarea method and the challenges ahead." Tehran University. Fourth National Conference of experience in water utilitie sand irrigation and drainage networks.
- 13) Amjadzadh, A., **Khayat, N.**, (2012), "Management and deployment of intelligent building systems in Iran." Zibakenar, the first National Conference on Development.

14) Mahdavi Adeli, M., **Khayat, N.**, Kazemi, A., (2013), "Feasibility study about stabilization methods of excavation in decrepit urban context and evaluation strategies."Hamedan University. First National Conference on Architecture, Restoration, Urban Development and the Sustainable Environment.

15) Mahdavi Adeli, M., **Khayat, N.**, Kasiri Dezfuli, M., (2013), "Determination of these is invulnerability of Ahwaz and provide strategies for immunization." Hamedan University. First National Conference on Architecture, Restoration, Urban Development and the Sustainable Environment.

16) Albushuke, M., **Khayat, N.**, (2013), "study of Permitted percentage of gypsum in irrigation and drainage canal embankments (Case Study: Irrigation and Drainage Project Arayz province)." Mohaghegh Ardabili University. First National Conference on Geotechnical Engineering of Iran.

17) Albushuke, M., **Khayat, N.**, (2013), "The study of soil properties affected by natural gypsum."First National Conference on Geotechnical Engineering of Iran.

18) Albushuke, M., **Khayat, N.**, (2013),"Technical Evaluation ofthe effect of plaster on physical characteristics of lean clay (Case Study: Irrigation and Drainage Projects Azadegan plane, Khuzestan). "Mohaghegh Ardabili University. First National Conference on Geotechnical Engineering of Iran.

19) **Khayat, N.**, Salighezadeh, (2003), "Geosynthetic applications in landfills." Amir Kabir University (Tehran Polytechnic).10th National Conference on Civil Engineering students.

8) Research projects

- Characterization of mixtures of sand mixed with clay-Islamic Azad University, Iran, Ahvaz(2005)
- Evaluation of silt mix behavior in non-isotropic status-Islamic Azad University, Iran, Ahvaz(1387)
- Study of hydraulic structures built on chalk soil sand determination of permitted amount of gypsum in the soil-Islamic Azad University, Iran(2012)

9) Books

The book "Soil Mechanics Laboratory" –Tohidi, M., Khayat N., Jondishapour Publications - (2004).

10) Membership in Scientific and Research Societies

- Head of Khuzestan branch of the Iranian Geotechnical Society from 2006 to2010.

- Member of Iranian Geotechnical Society from 2004 till now.
- Member of the Engineering Council of Khuzestan province from 2003 until now.
- Chief of The working group of standard translation bearing concrete blocks in Khuzestan branch of the Iranian standard Organization.
- Member of the Standard translation Working Group Chloride diffusion in concrete in Khuzestan branch of the Iranian standard Organization.

11) Arbitration

- Arbitration and monitoring flow projects related to water and power organization in Khuzestan.
- Arbitration and monitoring of tow research projects of Islamic Azad University of Ramhoormoz.
- Referee Journal of Applied Clay Science Journal Publication– Elsevier, year2011, an article.
- Referee of the publication of the journal GEOMATE-JOURNAL- Mai university of Japanduring2011-2012, two papers.
- Referee of the Journal of Water Science and Engineering- University of Khuzestan Research, from 2010 until now
- Member of the Arbitration Committee, the National Congress of Civil Engineering- University of Semnan.
- Member of the Arbitration Committee, Second National Conference on Irrigation and Drainage Networks geotechnical issues-Agricultural Technical Institute-2010
- Member of the Arbitration Committee, Third National Seminar on Geotechnical Issues on Irrigation and Drainage Networks-Research Institute of Agricultural Engineering, 2012.
- Referee Science and Engineering journal of WASJ.

12) Teaching Courses and workshops Activities

1) Holding a Seminar titled "Geotechnical Zonation and Micro zonation of urban areas," presented at the Engineering Organization of Khuzestan in 2010.

2) Holding a Seminar titled "The cause of displacement occurred in reverse siphon pipes of Caron, administrative solution to solve the problem," presented at the Organization of Khuzestan Engineering in 2012.

- 3) Holding a Seminar titled "Page loading tests in the desert and its implementation," presented at the University of Ahvaz in 2012.
- 4) Holding a Seminar titled "Executive bugs during production and effect of them on increased destruction of the earthquake," presented at the University of Ahvaz in 2012.
- 5) Holding Seminar entitled "Zoning requirements in geotechnical engineering," presented at the University of Ahvaz in 2011.
- 6) Seminar titled "Reverse flushing procedure of Carron in Khoramshahr "provided in Islamic Azad University, Ahvaz branch, 2011
- 7) Holding a Soil Mechanics Engineer Reminder course of Mahab Ghodss Consulting Engineering Company in Khuzestan projects- 2011.
- 8) Holding a Soil Mechanics Engineer Reminder course of Mahab Ghodss Consulting Engineering Company in Kermanshah projects- 2012.
- 9) Holding Soil Mechanics Engineer Reminder course of Mahab Ghodss Consulting Engineering Company in Shiraz projects- 2012.
- 10) Holding Soil Mechanics Engineer Reminder course of Mahab Ghodss Consulting Engineering Company in West and East Azarbayejan province projects, 2013
- 11) Holding Soil Mechanics Engineer Reminder course of Mahab Ghodss Consulting Engineering Company in Mazandaran and Gilan provinces projects, 2013.
- 12) Holding a Course entitled "Digging foundations, geotechnical and Guardian structures "license foundation courses promote employment and supervisory and computing engineers, Structural Engineering Organization in Khuzestan province, 2013.

13) Holding a Course entitled "Deep foundation" courses promoted by the surveyor and supervisor license Engineering Career, Engineering organization of Khuzestan province, 2013.

14)) Holding a Course entitled "Soil Remediation" Courses promoted by the surveyor and supervisor license Engineering Career, Engineering organization of Khuzestan province , 2013.

13) Training Courses

1) Review of bugs in the building and comparison with the national regulations of buildings and structures. Organized by Khuzestan Council of Engineers, 2011.

2) Building and rebuilding materials-the organized by the Institute of Engineering Tehran Iran 2007.

3) Understanding the basics of building materials and products. Organized by Knowledge Engineering Institute of Iranian, Tehran, Iran, 2007.

4) Understanding Welding and Weld Inspection in the building process-organized by the Institute of Engineering Iranian, Tehran Iran 2007.

5) Understanding basics of excavation and construction Guardian, organized by Knowledge Engineering Institute of Iranian, Tehran Iran 2007.

6) Monitoring of steel structures, organized by Knowledge Engineering Institute of Iranian, Tehran Iran 2007.

7) Understanding Plaxis software, organized by Consulting Engineers of Mahab Ghodss Consulting Engineering, Tehran Iran 2007.

8) General Conditions of Contract and Price List Basic Irrigation and Drainage- organized by Consulting Engineers of Mahab Ghodss Consulting Engineering, Tehran, 2012.

9) Understanding Basic Concrete Technology- organized by Consulting Engineers of Mahab Ghodss Consulting Engineering, Tehran, 2012.

10) The international workshop on new trends of seismic geotechnical design based on performance and life cycle analysis, Held at university of Tehran, civil department, 2008.

14) Supervision and advisement of thesis

a. Supervisor of MS thesis

1) Alireza Amjad- implementation of Intelligent Building Systems Management in Ahwaz. Islamic Azad University –Science and Research Branch, Khuzestan-2010.

2) Ali Sabermanesh- analytical Comparison of methods for seismicretrofitting of buildings, From the perspective of construction management approach according to the type of structure-Science and Research Branch, Islamic Azad University, Khuzestan-2010.

3) Hamed Ghamari- Identification and prioritization the factors influencing the delay in the implementation of construction projects in Ahwaz, Islamic Azad University –Science and Research Branch, Khuzestan-2010.

4) Iman Abbasi Lorki- Liquefaction assessment part of the Khuzestan plain (south Karkheh Noor-Salman units) in terms of liquefaction and its zoning- Islamic Azad University of Shahrekord, 2012.

5) Seyyed Majid Albushuke- study of Behavior of using a gypsum-bearing soils in the construction of hydraulic structure sand to determination of the permitted amount of gypsum in soils (Case study: irrigation and drainage projects Azadegan plane) -Islamic Azad University of Arak-2013.

6) Abbas Aryan- geotechnical zoning in Salman region of Azadegan plane, Khuzestan- Islamic Azad University of Arak- 2011.

7) Farbod Nazari Forushani- New build 3D structures assessed by comparison with existing methods (case study) -Islamic Azad University of Shushtar- 2010

8) Gholamreza Sadeghinejad- Evaluation of the drainage system beneath the concrete lining of the main Karkheh channel-Islamic Azad University of Dezful-2013.

9) Hamid Mersaghian-Challenges faced by the construction of irrigation and drainage networks in problematic soils, and discuss strategies to deal with them(a case study of irrigation and drainage canal network Arayz Plain) - Islamic Azad University of Shushtar-2013.

10) Mehdi Khalaf Shushtari- Effect of leaching of gypsum-bearing soils on the structural performance of water structures-Islamic Azad University of Arak-2013.

11)Javad Dehdashtian- The causes of shrinkage cracks in embankments constructed wet lands and providing a way to prevent them: A case study construction project boundary Huralazim-Islamic Azad University of Shushtar-2013.

12) Hossein Gorji-The effects of length and diameter piles in soils susceptible to liquefaction-Islamic Azad University of Estahban-2013.

13) Mehdi DashtPeyma- Quantitative Risk Assessment in road construction Projects: A Case Study of the Azadegan Oil Project-Science and Research Branch, Islamic Azad University,Khuzestan–2013.

14) Seyyed Alireza Sahebi- -Science and Research Branch, Islamic Azad University,Khuzestan–2012.

b. Advisor of MS thesis

1) Mohsen Larki Bakhtiari Nejad- Evaluation of performance of contract or escapable of technical competence, management knowledge, human resources, finance and equipment for the success of the National South Oil Company. Islamic Azad University, Science and Research Branch, Khuzestan-2010.

2) Ahmad Barjuee-Choosing the best method to protect large excavation pitin the city of Ahvaz(case study: soil of two park sand the airport station located in anurban rail way line in Ahvaz .Science and Research Branch, Islamic Azad University,Khuzestan-2010.

- 3) Amir Khoramnia-Effect of soil-cement mixture curing time on the mechanical and hydraulic properties of soils-Islamic Azad University of Dezful–2010
- 4) Arash Mohebatzade- Assessment of leakage in the embankments seep / w Software – Islamic Azad University of Dezful-2010.
- 5) Ali siadati- Effect of the aggregation of sand on the behavior of gravel–clay mix-Chamran University of Ahvaz - 2011.
- 6)Seyed Hedayat Ghavam-study of theoretic Application of Lean Manufacture in gsyn thesis processes-Science and Research Branch, Islamic Azad University ,Khuzestan- 2011.
- 7) Mohammad Ali Owzanzadeh-Effect of environmental factorson the performance of concrete structures located in Bandar Imam, Case Study: Fajr Site Building-Islamic Azad University of Shushtar-2011
- 8) Syed Ebrahim Kazemi- Feasibility study and excavation stabilization methods in Ahvaz-Islamic Azad University of Shushtar-2013.
- 9) Mohammad Kasiri Dezfuli- Determine the level of vulnerability against earthquakes in Ahvaz and providing solutions to secure the city-Islamic Azad University of Shushtar-2013.

c. Referee of MA theses

- 1) Afshin Sadeghian Milani-The method of building a bridge over the lake Orumie, and compare this method with other methods of bridge construction with foundations in the water-Science and Research Branch, Islamic Azad University,Khuzestan-2010.
- 2) Rahil Rokni- Optimal time of the project with respect to the graph of cost-linier time and comparison with linear and non-linear time for activities using simplex method-Science and Research Branch, Islamic Azad University, Khuzestan-2010.
- 3) Siamak Abbas poor-Non-basic method of preparing valuelist (special) –Science and Research Branch, Islamic Azad University,Khuzestan-2010.

4) Hamed Askari nejad Jozam-Behavior of concrete structures in fire-Science and Research Branch, Islamic Azad University, Khuzestan- 2011.

15) Teaching experiences

a. Islamic Azad University and Chamran University, Ahvaz

- 1) Soil Mechanics and Foundation Engineering, Islamic Azad University, Ahvaz branch
- 2) Soil Mechanics Laboratory, Principles of Dam Construction Engineering

b. Department of Civil Engineering (BSc, for 10 years)

- 1) Soil Mechanics Laboratory-Principles of Dam Construction Engineering-Construction Projects-Internship-Community Project.

c. Department of Water Structures Engineering (Ms, for 3 years)

Water geotechnical structures-Earth Dams

d. Department of Architecture, Bachelor and Associate (for 5 years)

Static1-static2- Design of steel structures

16) Awards and honors

- First Place Undergraduate Student Civil Engineering-Civil Engineering –University of Ahvaz–GPA=17/33, -1379.
- First Place Ms student orientation Civil Soil Mechanics-Chamran University of Ahvaz-GPA=17/12 -2003.
- First Place Ph.D Student,Civil Engineering-Soil Mechanics orientation-Islamic Azad University, Science and Research Branch of Tehran–GAP=17/54,2010

17) Administrative records

- Specialist geotechnical designer in Mahab Ghodss Consulting Engineers since 2005 (part-time)
- Specialist geotechnical designer and Accountant in Rahad Oxin Consulting Engineers since 2006 (part-time)
- Expert Geotechnics Controller in Engineering Organization of Khuzestan since 1388 (part-time)
- Specialist geotechnical designer and Accountant in Saz Ab Ahvaz Consulting Engineers from 2003 to 2004 (projects)
- Charge of the different technical Construction offices from 1379 to 2003.

18) Executive projects

a. Some Projects of Consulting Engineers of Mahab Ghodss

- 1) Design and optimum utilization of water resource at Chaloos Sardabrood Rivers.
- 2) Alborz Irrigation and Drainage-Part II Main Canal
- 3) Alborz Integrated management of water and soil project (World Bank project)
- 4) Diversion dam and flood control facilities of Ramshir
- 5) Study of integration of sources and uses of tropical catchment
- 6) The main irrigation and drainage networks of Kharajvchay
- 7) Irrigation network and channel of Glauber
- 8) The major Irrigation and Drainage network project of Lilanchay
- 9) Karkheh Basin Plan–Azadegan
- 10) Slim design of irrigation and drainage network
- 11) Transmission system design and irrigation and drainage network of Aghchai
- 12) Irrigation and drainage sub-network of Amir Dam
- 13) Oversight of executive operations of repairing water channel of Simin Dasht
- 14) water transfer to Azadegan plain and development of south Karkhenoor
- 15) Development of sustainable irrigation and drainage sub-networks of Alborz (Pashakola) associated with the World Bank
- 16) Geotechnical monitoring of Chaloos water channel (Parts 3, 4, 5 and 6)
- 17) Monitoring Executive Operations of Chaloos Water Canal

- 18) Payablands of Salman Farsi Dam Irrigation and Drainage (tar)
- 19) The second phase study of equipping and modernization of irrigation and drainage network and lands of rural production cooperatives
- 20) Monitoring of irrigation and drainage network executive operations units 2 and 3 of Arayz
- 21) Irrigation and drainage network development (units 1 and 2) Dosalgh Plain
- 22) Author geotechnical monitoring of Azadeganma in channel-Part II, AMC-2
- 23) Author geotechnical monitoring of Azadegan main channel-Part III, AMC-3
- 24) Author geotechnical monitoring of Azadegan main channel-Part IV, AMC-4
- 25) Author geotechnical monitoring of Azadegan main channel, MC-3
- 26) Author geotechnical monitoring of Ferdows and Yasamin Cooperative.
- 27) Author geotechnical monitoring of lands 2 and 3 channels
- 28) Author geotechnical monitoring of land 5 channel
- 29) Author geotechnical monitoring to restore the original channel Bridge
- 30) Carun inverted siphon operations monitoring in Khorramshahr
- 31) Irrigation and Drainage network of Givi
- 32) Irrigation and Drainage network of Siminerud

b. Projects of Consulting Engineers of Rahad Oxin

- 33) Geotechnical report preparation of Kaminus is in Imam Khomeini Harbour.
- 34) Geotechnical report preparation Imam Khomeini open sandy Harbour docks where the material depot
- 35) Study and geotechnical report preparation of River dredging of the river adjacent to the building structure and the Maritime Administration port of Khorramshahr
- 36) reports of the Analysis of Wall Creek drifting away, next to the Fire Department building and sailing port of Khorramshahr
- 37) Excellent geotechnical monitoring of Arvand kenar port construction in Khuzestan.
- 38) Supervision of geotechnical projects of the company in different parts of the country.

c. Projects of Consulting Engineers of Sazab Ahvaz

- 39) Prairie station of Mianbandan in Shushtar project
- 40) Water Supply to Tale Rizan project
- 41) Water Supply to Khuzestan Steel Factory project

42) Supervision of the Geotechnical projects of the company

d. Projects of Consulting Engineers of Elm vaTajrobeh Khozestan

43) design of the Bridge over the Sadat Hussein river

44) Supervision of the Geotechnical projects of the company

19) Recommenders Referees

- Dr. Mohammad Sirius Pakbaz, Associate professor in Chamran University of Ahvaz, since 1998

[\(mcpakbaz@yahoo.com\)](mailto:mcpakbaz@yahoo.com)

-Dr. Abbas Ghalandarzade, Associate professor in Tehran University, since 2006

[\(aghaland@ut.ac.ir\)](mailto:aghaland@ut.ac.ir)

- Dr. Mohammad Kazem Jaefari, Professor in International Institute of Earthquake, since 2004

[\(jafari@iiees.ac.ir\)](mailto:jafari@iiees.ac.ir)

- Dr. Abdolrasoul Telvari, Associate professor in Islamic Azad University, Ahvaz branch, since 2004 (artelvari@iauahvaz.ac.ir, telvari@gmail.com)