



Behnam Eslami Ziraki

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(last update:29/12/2019)

Qualification

**Department of Soil and Foundation, Tarbiat Modares University (TMU),
Tehran, Iran**

M.Sc. in Geotechnical Engineering Sept 2015
Thesis: Analysis of surface settlements due to excavation with TBM in urban areas,
Case study: Line 2 metro of Mashhad
GPA: 18.26/20 (91.30%)

Department of Civil Engineering, Ferdowsi University, Mashhad, Iran

B.Sc. in Civil Engineering Sept 2013
GPA: 16.79/20 (83.95%)

Research Interest

Numerical Simulation in Geotechnical Engineering
Tunnel Engineering
Retaining Wall (Diaphragm wall and Pile)
Slope Stability in Soft Soil
Experimental Approaches in Geotechnical Engineering
Risk Assessment in Urban Project
Soil Improvement

**Research
Experience**

The University of Tarbiat Modares (TMU), Tehran, Iran

Improvement of Expansive Soils
Mechanized Tunneling in Soft Ground
Soil Behavior in Deep Excavation Adjacent to Existing Infrastructures

**Distinctions &
Awards**

Ranked 1100th among students in nation-wide entrance exam for Sept 2009
Iranian universities among about 400,000 examinees (top 0.2%)
Semi-finalist to civil engineering student Olympiad Apr 2013
Ranked 3th among 110 students in bachelor; One of the top Sept 2013
3.5% of students in wide entrance Ferdowsi University
Ranked 1th among 11 students in Master at Tarbiat Modares Sept 2015
University (TMU)

Publish books

The excavation in urban areas by diaphragm wall approach

Under writing, about 60% of this book was written by me and Dr N. Zarif Moghadam

**Professional
Memberships**

Iranian construction engineering organization Sept 2016
National Elite Foundation (NEF)- selected as the intelligent Aug 2015
student based on the research history
Iranian Geotechnical Society (IGS) May 2014
Iranian Tunneling Association (ITA) June 2014

<u><i>Journal Paper</i></u>	Ziraki B.E. and Golshani, A. (2017), 3D Stability analysis of heterogeneous face excavation by TBM- EPB machine- Case study line 2 metro of Mashhad, Journal of Civil Engineering of Sharif University, Volume 33.2, Issue 1.1, Pages 121-128, Available from: doi:10.24200/J30.2017.1103	9 May 2017
	Ziraki B.E. and Golshani, A. (2017), Performance of CAPS Method in Construction of Large Span Underground Space – A Case Study: Q7 Station - Tehran Metro Line 7, International Journal of Geoenvironment Case Histories, Vol. 4, Issue 3, p.147-161. Available from: doi: 10.4417/IJGCH-04-03-01	22 Dec 2017
	Ziraki B.E. , Golshani, A, Ghasemi, V and, Shakeri, Z.F. (2019), Effect of constitutive model on prediction of surface settlements in cohesive soils – A case study: Mashhad Metro line 2, International Journal of Geotechnical Engineering, Under Review	26 Dec 2019

<u><i>Conference Paper</i></u>	Ziraki B.E. and Golshani, A. (2014), Analysis the surface settlement due to T.B.M excavation by numerical and experimental methods- case study: Line 2 Metro of Mashhad, 3 rd conference of dam and tunnel, , Tehran University, Oral presentation	Sep 2014
	Ziraki B.E. and Golshani, A. (2015), Investigate the effect of tail void grouting on surface settlement in excavation by TBM in urban areas – case study: Line 2 metro of Mashhad, 10 th International conference Civil Engineering, Tabriz University, Poster presentation.	May 2015
	Ziraki B.E. and Golshani, A. (2015), Application of the hardening soil model during underground excavation analysis- case study line 2 urban railway of Mashhad, , ITAWTC 2015 Congress and 41st General Assembly ITAWTC 2015, Oral presentation	May 2015
	Ziraki B.E. and Golshani, A. (2016), An empirical relationship for predicting the surface settlement due to EPB-TBM excavation – Case study: Mashhad metro line 2, World Tunnel Congress Proceedings 2016, Poster, Available from: doi: 10.22496/jce2016082750	April 2016
	Ziraki B.E. and Ghasemi, V. (2017), Uplift pressure resistant approach in diaphragm wall excavation-case study: Imam Hossein Holy Shrine development–karbala- Iraq, , 2nd World Congress on Civil, Structural, and Environmental Engineering (CSEE'17), Oral presentation, Available from: doi: 10.11159/icgre17.106	April 2017
	Ziraki B.E. and Zarif Moghadam, N. (2019), Investigation of soil strength parameters on diaphragm wall design approach -case study: Azadi underground parking- Mashhad-Iran, the 4th World Congress on Civil, Structural, and Environmental Engineering (CSEE'19), Accepted for Oral presentation, https://www.researchgate.net/publication/338331644_Investigation_of_soil_strength_parameters_on_diaphragm_wall_design_approach	April 2019
	Ziraki B.E. , Zarif Moghadam, N. Ghasemi,V. Shakeri, Z.F. (2020), Optimization of anchorage and diaphragm wall systems in cohesive soils, the 4th World Congress on Civil, Structural, and Environmental Engineering (CSEE'19), Submitted	April 2020

“Makin Sazeh” contracting Engineers Company, Tehran, Iran	Aug 2013-Nov 2016
“Abar Kavosh Khak Beton” Engineers Company, Mashhad, Iran	Dec 2016-Dec 2019

Responsibilities:

- To prepare/check feasibility studies, technical reports and other documents
- To plan geotechnical field and laboratory investigation programs
- To revise/check laboratory and field tests results
- To perform/check structural analysis
- To check CAD drawings and documents, the direction and supervise CAD technicians
- To carry out site visits, surveys, and inspection of bridges and structures

Work Experience

Ferdowsi University, Mashhad, Iran

Teaching Assistant for “Economy Engineering”, Ferdowsi university of Mashhad	Fall 2012
Teaching Assistant for “Surveying Engineering”, Ferdowsi university of Mashhad	Fall 2012
Teaching Assistant for “Soil mechanics, Ferdowsi university of Mashhad	Spring 2014
Teaching Assistant, Steel and concrete project	Fall 2015

Teaching Experience

Certificate skill from Technical and professional organizations about "Three-dimensional analysis and design of structures with Etabs", 112hour	grade 89.2/100
Certificate skill from Technical and professional organizations about "analysis and design of foundation with safe program",56 hour	grade 92.5/100
Certificate skill from Technical and professional organizations about "Supervisor of Surveying of Squads", 344hour	grade 78.75/100
Certificate skill from Technical and professional organizations about "Surveyor with electronic devices total station", 45hour	grade 93.12/100
Certificate attend in professional workshop about "Micro-hydro power plants",1day, Iranian National Committee on Large Dams,	March 2013

Certifications

Software competencies

AutoCad 2D, Sap, Safe, Etabs, Plaxis2D, Plaxis3D, FLAC2D, FLAC3D, Geo-studio, Microsoft office, GTS NX(Midas)

Programing

Matlab, Fortran, C++

Representative Graduated Coursework

Advanced Foundation Engineering	Rock mechanic
Soil Dynamics (Audit)	Tunneling
Theory of Finite Element Analysis	Advance soil mechanic
Inelastic Behavior of Materials	Engineering mathematic
Computational Methods in engineering	Design of steel structure
Earth Dams	Design of concrete structure
Site investigation	Geotechnical earthquake engineering

Language

Persian (mother tongue) – English (IELTS Overall:6.5, W:6, S:7, R:5.5, L:6.5)

References

Dr. Aliakbar Golshani, Assistant Professor
 Department of Civil and environmental Engineering, Tarbiat Modares University (TMU)
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 www.modares.ac.ir/~golshani

Dr. Ali Komakpanah, Associated Professor

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Dr. Mohammad Noroz Olyaei, Assistant Professor

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<http://www.modares.ac.ir/~m.olyaei>

Dr. Nasser Zarif Moghadam, Assistant Professor

Technical and Vocational University of Mashhad

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