



# Taher Chegini

Résumé

## Education

2006–2010 **Master of Civil Engineering – Hydraulics**, *K.N.Toosi University of Technology*, Tehran, Iran.

2002–2006 **Bachelor of Civil Engineering**, *University of Razi*, Kermanshah, Iran.

## Master's Thesis

Title *VOF Numerical Modeling of Nonlinear Water Waves Using Finite Volume Method*

Supervisor Dr. Korosh Hejazi

Description In this thesis a Volume-of-Fluid technique is developed and then coupled with a hydrodynamic free-surface numerical model.

## Bachelor's Final Project

Title *Review of bracing system for steel and concrete structures*

Supervisor Dr. Reza Aghayari

Description In this project a thorough review is done on the subject of different types of bracing systems of steel and concrete structures.

Khazar University, Mehseti St., Neftchilar, AZ1096 – Baku, Azerbaijan

☎ (+99455) 670 9514 • ☎ (+99412) 421 1093 Ext:264

✉ [tchegini@khazar.org](mailto:tchegini@khazar.org) • 🌐 [khazar.org/v7787/Taher-Chegini/en](http://khazar.org/v7787/Taher-Chegini/en)

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## Experience

### Vocational

- 2013–**Full Time Instructor**, KHAZAR UNIVERSITY, Baku, Azerbaijan.  
Present Teaching Petrol and Civil Engineering courses to undergraduate students, and managing civil engineering laboratory.
- Courses (click to see my teaching [webpage](#)):
- Fluid Mechanics
  - Introduction to CFD (MATLAB)
  - Renewable Energy (Wave Energy and Hydroelectricity)
  - Engineering Mechanics
  - Strength of Material and Lab.
  - Introduction to VFX and Animation
- 2011–2013 **Part Time Instructor**, AZAD UNIVERSITY, SOUTH TEHRAN BRANCH, Tehran, Iran.  
Teaching Architectural and Civil Engineering to undergraduate students.
- Courses:
- Design of Concrete Structures
  - Design of Steel structures
  - Structural Details of Buildings
- 2013 **Part Time Engineer**, PETROMAAD CO., Tehran, Iran.  
Consultant Engineer for petrol station construction and reconstruction.
- 2011–2012 **Conscription**, ENGINEERING COMMAND CENTER OF IRANIAN ARMY, Tehran, Iran.  
Consultant Engineer for designing and constructing residential buildings.
- Job description:
- Concrete and Steel buildings design.
  - Construction Observer
- 2011 **Part Time Engineer**, ZOUMAR CONSULTING ENGINEERING CO., Tehran, Iran.  
Consultant Engineer.
- Job description:
- Feasibility study of urban drainage system of Tehran, Iran
  - Rehabilitation of 20 Diversion dams located in Boushehr, Iran
- 2007–2009 **Part Time Engineer**, TAJHIZ MOHIT CO., Tehran, Iran.  
Consultant Engineer.
- Job description:
- Structural design of a concrete building
  - Project scheduling
  - Construction Observer

### Educational

- 2014 Establishing and conducting first Spaghetti Bridge competition at the Khazar University

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- 2013– Present Membership of Iranian Hydraulic Association
- 2012– Present Membership of Integrated Hydro-environment Research (IHR) group
- 2008 Training Course on subject of Project Management (PMBOK 2004)
- 2008 Training Course on subject of Project Management Methods
- 2006 Head of a programming group for calculating stiffness matrices of structures in C++ at the Razi University

### Miscellaneous

- 2006–2013 **Freelance Designer.**
  - Structural design of buildings
  - Making Animations and Graphical Designs
- 2004 **Summer Job**, *Soil Laboratory of Razi University*, Kermanshah, Iran.  
in-situ soil sampling

## Publications and Awards

- 2010 Proceeding of the 9<sup>th</sup> International Conference on Coasts, Ports and Marine Structures (ICOPMAS), Tehran, Iran  
Title of paper: *VOF Numerical Modelling of Water Waves Using FVM*
- 2007 Proceeding of the 13<sup>th</sup> Conference of Civil Engineering Students Across Iran, Kerman, Iran  
Title of paper: *Review of bracing systems for steel and concrete structures*
- 2007 Best paper award in 13<sup>th</sup> Conference of Civil Engineering Students Across Iran, Kerman, Iran

## Computer skills

- Basic DELFT3D (open source), HEC-RAS, PYTHON, Houdini
- Intermediate Tecplot 360, MATLAB, ETABS, SAP2000, SAFE, C++, Linux, After effects, Premier, Nuke, PFTrack, ZBrush
- Advanced FORTRAN, MEL, L<sup>A</sup>T<sub>E</sub>X, Autodesk AutoCAD, Maya, Real Flow, Photoshop, Microsoft Office Package

## Languages

- Persian **Mother tongue**
- English **Fluent** *iBT TOEFL score: 99*
- Azery **Basic** *Basic words and phrases only*

## Interests

- Computer Graphics
- Poetry
- Soccer
- Movie
- Astronomy
- Music

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