

SHAHAB EGHBALI

Address: No.23, Sepehri St., Ajoudanieh St.

Tehran, Iran

Date of Birth: 1992

Email: Shahab.eghbali@ut.ac.ir

Cell Phone: (+98) 935-1007645

Gender: Male

EDUCATION

Faculty of Mechanical Engineering, University of Tehran, Tehran, Iran

B.Sc. student of Mechanical Engineering

2010 – 2014*

GPA: 18.25/20

Last 2 years GPA: 18.53/20

*Expected Graduate Date

Shohadaye Badr High School, Tehran, Iran

Diploma of Mathematics & Physics

2006 - 2009

GPA: 19.96/20

RESEARCH INTERESTS

Turbo machinery, Hydrodynamics of Turbines, Multiphase Pumping, Pump-Turbines Cavitation, Bubble Dynamics, Hydroacoustics, Flow Induced Noise & Vibration, Flow Instabilities in Turbines & Pumps, Condition Monitoring of Hydraulic Machines

Renewable Energies, Wind Energy, Solar Energy

Fluid Dynamics

Fluid Mechanics, Numerical and experimental studies

Thermodynamics

Computational Fluid Dynamics

Heat Transfer

SELECTED COURSES

Turbo machinery	Top Mark (18.5/20)	Thermodynamics II	2nd Mark (19/20)
Thermal Power Plants	Top Mark (20/20)	Control Automatic	2nd Mark (18.8/20)
Fluid Mechanics I	Top Mark (20/20)	CFD I	17.5/20
Thermodynamics I	Top Mark (19.1/20)	Heat Transfer	17.6/20
Numerical Computations	Top Mark (20/20)	Renewable Energies	18/20
Fluid Mechanics II	2nd Mark (18.82/20)		

HONORS & AWARDS

2013	Awarded for Full Scholarship from University of Tehran for graduate program, granted to top 10 percent of faculty top ranked students.
2013	Ranked 10th among 112 B.Sc. undergraduate students of Mechanical Engineering, Faculty of Engineering, University of Tehran
2012	Winner of HAREKAT FESTIVAL Prize as a member of Best Innovative student scientific association in Iran.
2010	Ranked 182nd in National University Entrance Exam among over 400,000 participants.
2006 – 2010	Top student of Shohadaye Badr High school .

RESEARCH EXPERIENCE

Summer 2013	Operation Analysis of 1MW Industrial multi-stage centrifugal pump, using Numeca Software, as Research Assistant of Prof.A.Nourbakhsh
Spring 2013	Numerical solution of Velocity-Stream line Function in a Lid Driven Cavity using SOR iterative method over uniform & non-uniform structured grid, using C++ programming language. CFD I, Prof.V.Esfahanian
Spring 2013	Explicit Numerical solution of 2-D Navier-Stokes & Continuity equations in a Lid-Driven Cavity, using SIMPLE, SIMPLER and SIMPLEC scheme over uniform and non-uniform structured grid, using C++ programming language. CFD I, Prof.V.Esfahanian
Spring 2013	Numerical solution of Blasius' Boundary Layer equation in free fluid stream upon a flat plate, using Finite-Difference scheme, Keller box method, using C++ & Fortran programming languages. CFD I, Prof.V.Esfahanian
Spring 2013	Analysis of a case-study Combined-Cycle power plant and approaches to enhance the efficiency. Thermodynamics II, Prof.A.Afshari
Spring 2013	Design of actuator for Active Controller of suspension system and dynamic controlling of vehicle class C. Control Automatic, Prof.M.Mahjoob
Fall 2013	Numerical simulation of heat transfer in Heat generating electronic chip under convectional electronic cooling and conduction mechanisms using Finite-Difference scheme, Explicit and Implicit method, using MATLAB programming language. Heat Transfer I, Prof.M.Ashjaee
Summer 2012	Procedure of design and construction of Wind Turbines. Research, Prof.V.Esfahanian
Spring 2012	Free convection and industrial applications. Fluid Mechanics I, Prof.V.Esfahanian

ACADEMIC EXPERIENCES

Since 2013 **Research Assistant** at Hydraulic Machinery Research Institute (HMRI).
2012-2013 **Official Member** of Scientific Association of Mechanical Engineering
Faculty (S.A.M.E), University of Tehran, Iran

Teaching Assistant, Faculty of Mechanical Engineering, University of Tehran, Iran

Spring 2013 “**Heat Transfer I**” to Instructor: **Prof.B.Sajadi**
Spring 2013 “**Strength of Materials II**” to Instructor: **Prof. A.Ataei**
Fall 2013 “**Heat Transfer I**” to Instructor: **Prof.B.Sajadi**

COMPUTER SKILLS

- **Commercial Softwares:** Gambit, Fluent, Numeca, Solid Works, Tecplot, Cycle pad, Maple
- **Programing Softwares:** C++, MATLAB, Fortran
- **Utility Softwares:** Microsoft Office, Adobe Photoshop, LATEX

LANGUAGE SKILLS

Persian (Mother Tongue)

English (IBT TOEFL Score: 99, Reading: 28, Listening: 23, Speaking: 26, Writing: 22)

French (Writing & Reading with medium proficiency)

HOBBIES

Playing music (Master in playing the Daf & Dayereh, traditional Iranian percussion instruments)
Persian Calligraphy & Literature
Sports, Mountain Climbing, Playing Chess, Swimming

REFREES

- **Prof. Ahmad Nourbakhsh**, Full Professor, Head of Turbo Machinery Department, Head of Hydraulic Machinery Research Institute (HMRI), University of Tehran.
Email: anour@ut.ac.ir Phone: (+98) 21-82084815
- **Prof. Vahid Esfahanian**, Full Professor and Head of Vehicle, Fuel and Environment Research Institute, University of Tehran.
Email: evahid@ut.ac.ir Phone: (+98) 21-88020741
- **Prof. Mehdi Ashjaee**, Full Professor, Head of Energy Department, Head of Laser Diagnosis Lab., University of Tehran.
Email: ashjaee@ut.ac.ir Phone: (+98) 21-61114034