

Ali Akbar Shahbazi

Address:

University of Tehran, College of Engineering,
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PERSONAL STATUS

- Languages Persian (Native)
Azeri (Native)
- Birth Date 15 December 1986
- Gender Male
- Marital Status Married
- Military Service Exempted (Kefalat)

EDUCATION

- **University of Tehran** Sep. 2012–Up to Now
Ph.D., Mechanical Engineering; Tehran, Iran
 - ◇ **Total Cumulative GPA:** 17.30/20
 - ◇ **Supervisor:** Prof. V. Esfahanian.
 - ◇ **Thesis Title:**
- **University of Tehran** Sep. 2009–Feb. 2012
M.Sc., Mechanical Engineering; Tehran, Iran
 - ◇ **Total Cumulative GPA:** 18.65/20
 - ◇ **Supervisor:** Prof. V. Esfahanian.
 - ◇ **Thesis Title:** *3D Conjugate Heat Transfer Modeling of Gas Turbine Vane for Blade Life Assessment (19/20)*
- **Sharif University of Technology** Sep. 2005–Sep. 2009
B.Sc., Mechanical Engineering; Tehran, Iran
 - ◇ **Total Cumulative GPA:** 16.72/20
 - ◇ **Supervisor:** H. Mahdigholi.
 - ◇ **Final Project Title:** *Wind Turbine Blade Design (19.8/20)*
- **Nodet Shahid Ghodoosi** Sep. 2001–Jun. 2005
Diploma in Physics and Mathematics; Qom, Iran
 - ◇ **Total Cumulative GPA:** 19.02/20

HONORS AND AWARDS

- Ranked 1st among 35 M.Sc. Students in Mechanical Engineering Department, [University of Tehran](#) (GPA: 18.65/20).

- Ranked 18th in Mechanical Engineering Ph.D. Program Entrance Exam among more than 1000 participants, Tehran, Iran, Summer 2012.
- Ranked 71th in Mechanical Engineering Graduate Program Entrance Exam among 20000+ participants, Tehran, Iran, Summer 2009.
- Ranked 334th in University Entrance Exam among 500000+ participants, Tehran, Iran, Summer 2005.

RESEARCH INTERESTS

- Reduced Order Modeling
- Gas Turbine
- Turbulence and Transition
- Computational Fluid Dynamics (CFD)
- Renewable Energies

PUBLICATIONS

► Journal Papers

1. V. Esfahanian, A. Salavati Pour, I. Harsini, A. Haghani, R. Pasandeh, **A. Shahbazi** and G. Ahmadi, "*Numerical Analysis of Flow Field around NREL Phase II Wind Turbine by a Hybrid CFD/BEM Method*", Journal of Wind Engineering & Industrial Aerodynamics, 2013.

► Conference Papers

1. V. Esfahanian, **A. Shahbazi** and G. Ahmadi, "*Conjugate Heat Transfer Simulation of Internally Cooled Gas Turbine Vane*", 20th Annual Conference of the CFD Society of Canada and CFD 2012 Challenge, Canmore, May 2012.

► Books

1. Assistant Editor, Fluid Mechanics II, Prof. V. Esfahanian, To be Published.

EMPLOYMENT EXPERIENCES

► Teaching Experiences

- Teaching Assistant of CFD I, University of Tehran, Prof. V. Esfahanian, Spring 2013.
- Teaching Assistant of CFD II, Prof. V. Esfahanian, Fall 2012.
- Teaching Assistant of Fluid Mechanics I, Prof. V. Esfahanian, Spring 2011 & Spring 2012.
- Teaching Assistant of Fluid Mechanics II, Prof. V. Esfahanian, Fall 2011.
- Teaching Assistant of Continuum Mechanics, A. Riasi, Fall 2010.
- Remarkable teaching experience as a private tutor offering majority of main subjects associated with mechanical engineering, for both B.Sc. and M.Sc. courses.

► **Research & Development (R&D)**

- Researcher of Vehicle Fuel & Environment Research Institute ([VFERI](#)), Sep 2009 to Present.
- Trainee of [Farab Co.](#) (water turbines), 240 Hour, Summer 2009.
- Trainee of [Saba Power Co.](#) (wind turbine assembly, installation and R&M), 240 Hour, Summer 2007.

SKILLS

► **Language Skills**

- English Fluent; IELTS score: 5.5; Speaking: 5.0, Listening: 5.0, Writing: 5.5, Reading: 6.0

► **Computer Skills**

- OS Windows
- Programming Languages C++, Fortran
- Engineering Softwares Matlab, Fluent & Gambit, Ansys CFX
- General Softwares Microsoft Office, LaTeX, Tecplot