

## ***Farhad Nikfarjam***

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Date of Birth: June 17<sup>th</sup> 1986

City of Birth: Shiraz, Iran

Marital Status: Single

Gender: Male

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### **Educational Background:**

✓ **Yazd University, Yazd, Iran (2009-Present)**

M.Sc. in Mechanical Engineering (Energy Conversion): GPA= 16.79 out of 20

✓ **Isfahan University of Technology(IUT), Isfahan, Iran (2005-2009)**

B.Sc. in Mechanical Engineering: GPA= 14.24 out of 20

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### **Computer Proficiency:**

✓ Programming languages: **Visual FORTRAN, MATLAB, C.**

✓ Mechanical Engineering: **FLUENT & GAMBIT, CATIA, CAESAR II.**

✓ General: **WORD, EXCEL, POWERPOINT, WINDOWS (XP, Vista, 7), Linux (Ubuntu)**

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### **Research and Accomplished Projects:**

✓ Heat Transfer in the rollers of Sheet-Rolling Machine with **FLUENT** (**BS Thesis**) (Summer 2009)

✓ Numerical solution of Falkner-Scan energy equation with **Visual FORTRAN** (Fall 2009)

✓ Numerical investigation of free convection flow along a vertical wall (Isotherm-Uniform Heat Flux Conditions) with **Visual FORTRAN** (Fall 2009)

✓ Numerical solution of 2-D Elliptic equation with control volume discretization method (**Visual FORTRAN**) (Spring 2010)

✓ Numerical solution of unsteady flow of lid-driven cavity by **PISO** Algorithm (**Visual FORTRAN**) (Summer 2010)

✓ Numerical solution of turbulent flows over single and double forward-facing steps with Spalart-Allmaras model (Winter 2010)

- ✓ Numerical investigation of power-law fluids flow over two square cylinders in different configurations (**MS Thesis**) (Spring 2011-current)
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### **Publications:**

- ✓ F. Nikfarjam, A. Sohankar, “Power-law fluid flow and heat transfer over two tandem square cylinders: Effects of Reynolds number and Power-law index”, Journal of Non-Newtonian Fluid Mechanics, 2012. (**Under Review**)
  - ✓ F. Nikfarjam, A. Sohankar, “Numerical investigation of power-law fluids flow characteristics and heat transfer over two tandem square cylinders”, 20<sup>th</sup> Iranian Society of Mechanical Engineering (ISME) International Conference, Shiraz, Iran 2012. (**Accepted**)
  - ✓ F. Nikfarjam, A. Sohankar, “Numerical simulation of power-law fluids flow over two tandem square cylinders”, 14<sup>th</sup> Fluid Dynamics Conference, Birjand, Iran 2012. (**Accepted**)
  - ✓ F. Nikfarjam, A. Sohankar, “Numerical investigation of power-law fluids flow and heat transfer over a square cylinder”, 11<sup>th</sup> Conference of Iranian Aerospace Society, Tehran, Iran 2012. (**Accepted**)
  - ✓ F. Nikfarjam, A. Sohankar, “Effects of gap spacing on power-law fluids flow and heat transfer of two tandem square cylinders”, 2012, *Journal Article*. (**Under Preparation**)
  - ✓ F. Nikfarjam, A. Sohankar, “Power-law fluids flow and heat transfer over two square cylinders in side-by-side arrangement”, 2012, *Journal Article*. (**Under Preparation**)
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**Languages Proficiency:** Farsi: Native, English: Fluent

### **Test Scores:**

- ✓ **IELTS:** Listening: 8.0, Reading: 7.5, Writing: 6.5, Speaking: 6.0, Overall: 7.0
  - ✓ **GRE Revised:** Quantitative: 163, Verbal: 145, Analytical Writing: 3.0
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### **Honors:**

- ✓ Ranked 1<sup>st</sup> among High School Students (**For 3 Years**)
- ✓ Ranked among 0.5% top students in participants in the “*National Universities’ Entrance Exam*” for B.Sc. degree (Summer 2005)
- ✓ Ranked among 0.25% top students in participants in the “*National Universities’ Entrance Exam*” for M.Sc. degree (Summer 2009)
- ✓ Ranked 1<sup>st</sup> among Mechanical Engineering (Conversion Energy) Students at *Yazd University* (GPA 3.88)
- ✓ Championship in *Iran National Universities Competitions* with IUT volleyball team

✓ Several Championships in *IUT Volleyball Cup*

✓ *CAESAR II* Skill Certificate

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**Selected Courseworks:**

✓ Turbulence

✓ CFD

✓ Advanced Fluid Mechanics

✓ Convective Heat Transfer

✓ Continuum Mechanics

✓ Fluid Mechanics

✓ Thermodynamics

✓ Heat Transfer

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**Research Interests:**

✓ CFD

✓ Bluff Bodies

✓ Aerodynamics & Fluid Dynamics

✓ Heat transfer

✓ Turbulence

✓ Experimental Fluid Mechanics

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**Extracurricular Activities:**

✓ Volleyball (Being a member of IUT team)

✓ Surfing Internet & Computer

✓ Taar Strumming (Persian Musical Instrument)

✓ Swimming

✓ Hiking

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