

Curriculum Vitae

Last Name: Zakeri

First Name: Naser



Contact Information

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Personal Information

Gender: Male

Nationality: Iranian

Marital Status: Single

Data of Birth: September 23 1978

Education:

2001-2004: **M.Sc in Mechanical Engineering (Biomechanics)**

Department of Mechanical Engineering, Sharif University of Technology, Tehran, Iran

Grade Point Average: 15.94 out of 20

1997-2001: **B.Sc in Mechanical Engineering**

Department of Mechanical Engineering, University of Semnan, Semnan, Iran

Grade Point Average: 16.69 out of 20

[2nd Rank amongst 120 Department Alumni \(2001\)](#)

1992-1996: **Mathematics Diploma**

National Organization for Development of Exceptional Talents (NODET), Semnan, Iran

Grade Point Average: 16.5 out of 20

Academic Accomplishments:

"3D Finite element modeling and analysis of a rotary furnace sing ANSYS software"

Supervisor: [Dr. Hajighorbani](#), **BS.c Thesis**

"Optimal Design of Hip Stem Using Finite Element Method and Numerical Optimization"

Supervisors: [Dr. H.Katoozian](#) and [Dr. F. Farahmand](#), **MS.c Thesis**

"Design consideration and feasibility analysis of an automotive technology park cooperating with universities"

Supervisor: [Dr. F. Farahmand](#)

Internship project, Sharif University of Technology

Research interests:

- Finite Element Modeling and Analysis
- Orthopedic Implant Biomechanics
- Prosthesis design and optimization
- Sport Biomechanics

Research in Progress:

- Effects of the stem position in uniform stress distribution of cement-implant interface in hip prosthesis using finite element method.

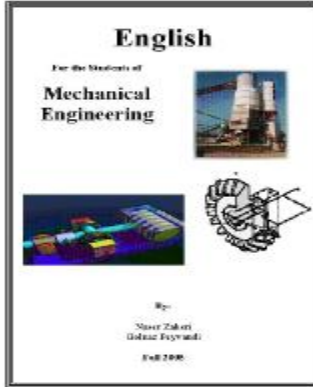
Upcoming projects:

- A feasibility analysis on usage of renewable energy resources in Semnan province of Iran (A Technical and Financial investigation)
- Design and Fabrication of a medical data-collecting chair (check-up chair) to improve accuracy and minimize time of doctors' diagnosis during medical examination.

Publications:

Book:

- **N. Zakeri**, G. Peyvandi "English for the students of Mechanical Engineering" 250 pages, Azad university of Semnan, fall 2005. Cover pasted here:



Scientific Papers and Technical Reports:

- **Naser Zakeri**, H. Katoozian, F. Farahmand, “Optimal Design of Hip Stem Using Finite Element Method and Numerical Optimization” presented in 11th Iranian Biomedical Engineering annual conference, Tehran, Iran, January 2003 ([Qualified as one of 5th uppermost papers at the conference](#))
- F. Farahmand, **Naser zakeri** ,M. Eynian "Design consideration and feasibility analysis of an automotive technology park cooperating with universities", [Presented at the annual conference of an automotive industry](#), Vol. 2, pp. 128-135, Tehran, July 2002,
- **Naser Zakeri**, H. Katoozian, F. Farahmand ,“Optimal Design of Hip Stem Using Finite Element Method and Numerical Optimization” [Accepted abstract for present in the orthopedic biomechanics conference, Poland.](#), June 2004
- **Naser Zakeri**, H. Katoozian, F. Farahmand , "Optimal Design of a Hip Joint Implant with Hallow Stem Using Finite Element Method" [Submitted abstract to The ASME conference on Engineering Systems Design and Analysis \(ESDA\) Italy](#), Fall 2005

Academic work experience:

- Teaching Assistant for the course “Material Strength”, Fall Semester 2000
- Teaching Assistant for the course “Dynamics”, Spring Semester 2000
- Teaching Assistant for the course “Thermodynamics”, Spring Semester 2001
- Teaching Assistant for the course “Statics”, Fall Semester 2001
- Teaching Assistant for the course “Fluid Mechanics”, Fall Semester 2000

Teaching assignments:

[Undergraduate Engineering Courses at Mechanical Engineering Department, Azad University of Semnan, Semnan, Iran](#)

- Technical English, Statics, Fall Semester 2005
- Technical English, Dynamics, Material Strength Lab, statics, Spring Semester 2005
- Technical English, Dynamics, Material Strength Lab. Fall Semester 2004
- Dynamics, Statics, Spring Semester 2004
- Material Strength, Thermodynamics, Fall Semester 2003

Industrial Experience:

2/2001-8/2001: Havasaz Co. (manufacture of Air-conditioning devise Tehran, Iran

Responsibility: Design engineer

4/2002-10/2002: Sapco (Supplier of Iran-khodro Corporation) Tehran, Iran

Responsibility: Member of Internship Project team named: Design consideration and feasibility analysis of an automotive technology park cooperating with universities

3/2004-5/2004: Iran organization of standard and industrial research Semnan, Iran

Responsibility: Compilation Director of standard named: standard Method of flow measurement by vortex flowmeter

5/2004-8/2004: Iran organization of standard and industrial research Semnan, Iran

Responsibility: Compilation Director of standard named: measurement of gas flow in closed conduits-turbine flowmeter

8/2004-11/2004: Iran organization of standard and industrial research Semnan, Iran

Responsibility: Compilation Director of standard named: standard liquids for calibrating viscometers

11/2004-2/2005: Iran organization of standard and industrial research Semnan, Iran

Responsibility: Compilation Director of standard named: standard Method of flow measurement by coriolis flowmeter

Computer and programming skills:

Good work experience with Auto CAD, Solidworks, MS Office, Visual Basic, FORTRAN, MATLAB, ANSYS
Familiar with AdAMS and CATIA

Professional Societies:

Iranian Society of Mechanical Engineers, member

Interests and Hobbies:

Mountain climbing, Biking, Jogging, Playing basketball, Listening to pop music, Reading books (especially psychology),
Traveling, Going to cinema, Book collecting.

References:

- **Dr. H .Katoozian**
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- **Dr. F .Farahmand**
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Mechanical engineering department, Sharif university of Technology, Tehran, Iran
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- **Dr. M. Parnianpour**
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>> Additional information available upon request