

Farzad KashefiNishabouri

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Education

Academic Qualifications.....

Iran University of Science and Technology
BSc, Current GPA: 3.91/4 – 18.10 / 20,
Ranked 3rd Among Students

Tehran, Iran
Sep. 2014–Present

My overall GPA is approximately 3 (out of 20) **points above** the average GPA of mechanical engineering students School of Mechanical Engineering

Thesis topic: Viscoelastic Behavior of Nanocomposites .

Iran University of Science and Technology is one of the best universities of Iran based on international rankings such as US news, QS, and Times Higher Education.

ATTCE advanced branch
High School Diploma,
GPA:19.54 / 20

Tehran, Iran
Sep. 2010–Jun. 2014

Notable selected courses.....

- Mechanics of Material I (4/4) (1st mark of class)
- Mechanics of Material II (4/4) (2st mark of class)
- Mechanics of Material III (4/4) (1st mark of class)
- An Introduction to Mechatronics (4/4)
- Introductory Finite Elements (4/4) (1st mark of class)
- Practical plasticity and Metal Forming (4/4)
- Thermodynamics I (4/4) (1st mark of class)
- Thermodynamics II (4/4) (2nd mark of class)
- Thermodynamics Lab (4/4) (1st mark of class)
- Materials Science Lab (4/4) (1st mark of class)
- Fundamentals of Electrical Engineering I and II (4/4) (1st mark of class)
- Fundamentals of Electrical Engineering Lab (4/4) (1st mark of class)
- Dynamics of Machinery (4/4) (1st mark of class)
- Mechanical Vibrations (4/4)
- Design of Machinery I (4/4)
- Design of Machinery II (4/4) (2nd mark of class)
- Mechanics of Material Lab (4/4) (1st mark of class)
- Fluid Mechanics Lab (4/4) (1st mark of class)

- Fluid Mechanics I (4/4) (1st mark of class)
- Fluid Mechanics II (4/4) (1st mark of class)
- Heat Transfer I (4/4)
- Automatic Control (4/4)
- Technical Drawing I & II (4/4) (1st mark of class)
- General physics I (4/4) (1st mark of class)
- General physics II (4/4) (1st mark of class)
- Ordinary Differential Equation (4/4) (3rd mark of class)

Publications.....

- Shokrieh M.M, Kazemirad S., **KashefiNishabouri F.**, "Effect of CNT Particles on Viscoelastic Behavior of Composite Materials" (In Preparation), (Can be approved by the supervisor: shokrieh@iust.ac.ir & skaemirad@iust.ac.ir)
- HosseinKhanli A., Shojaei M., **KashefiNishabouri F.**, Bayati A., "X-Mech 2018 International Conference", "Investigation and Presentation of a Non-destructive Test Method in Electrofusion joints of Polyethylene Gas Piping for City Gas Network" , (<http://xmech.iust.ac.ir/>)

Experiences

Teaching Experiences.....

Design of Machinery Components II (TA) <i>Dr. Talebi Tooti</i> Feb – May2018	Tehran, Iran <i>Iran University of Science and Technology</i>
Mechanics of Materials I (TA) <i>Dr. Shokrieh</i> Sep2017 – January 2018	Tehran, Iran <i>Iran University of Science and Technology</i>
Mechanics of Materials I (TA) <i>Dr. Shokrieh</i> Sep2016 – January 2017	Tehran, Iran <i>Iran University of Science and Technology</i>
Physics I (TA) <i>Dr. Zamani</i> Feb – May2016	Tehran, Iran <i>Iran University of Science and Technology</i>
Physics Teacher <i>Summer 2014-Summer 2017,</i>	Tehran, Iran <i>Koosar High School</i>

Work Experiences.....

BMW sales and after sales service <i>Job internship, Workshop, problem diagnosis,</i>	Tehran, Iran <i>Summer 2017</i>
BMW sales and after sales service <i>Job internship, Workshop, problem diagnosis,</i>	Tehran, Iran <i>Summer 2016</i>

Honors and Awards

- **Admission to Sharif University Of Technology** **Tehran, Iran**
○ Exempt from Msc. University Entrance Exam as an **Exceptional Talented Student**, September 2018
- **Top Student of BSc: Iran University of Science and Technology** **Tehran, Iran**
○ Rank **3rd** among **115** Mechanical Engineering students, September 2018
- **Top Student of the Year: Iran University of Science and Technology** **Tehran, Iran**
○ Rank **3rd** among **115** Mechanical Engineering students, september 2017
- **Top Student of the Year: Iran University of Science and Technology** **Tehran, Iran**
○ Rank **2nd** among **115** Mechanical Engineering students, September 2016
- **Top Student of the Year: Iran University of Science and Technology** **Tehran, Iran**
○ Rank **2nd** among **115** Mechanical Engineering students, September 2015
- **Admission to Iran University of Science & Technology.** **Tehran, Iran**
○ tuition waiver, 2014
- **Ranked 796 among more than 260000 participants in nationwide university entrance exam,** **Tehran, Iran**
Jul 2014
- **National Physics Olympiad** **Tehran, Iran**
○ Accepted for second stage (Being among top 600 students of whole Iranian highschool, Jun 2013
students (0.5 Million High School Students)
- **National Astronomy Olympiad** **Tehran, Iran**
○ Accepted for second stage (Being among top 500 students of whole Iranian highschool, Jun 2013
students (0.5 Million High School Students)

Fields of Interest

- Solid Mechanics
- Composite Materials
- Finite Element Method
- Nano Materials
- Robotics
- Biomechanics
- Medical Devices
- MEMS

Projects

Academic.....

- **Nanocomposite's Viscoelastic behaviour**
Developed a MATLAB code to make the CNT and imported it to ABAQUS to simulate the RVE of epoxy specimen reinforced by CNT and predict the viscoelastic behaviour by adjusted micromechanical theorem like Hashin and Tsai Wu and the results were checked by DMA experiment. This is a part of my BSc thesis supervised by **Prof. Shokrieh (professor of IUST)**

and **Kazemirad(assistant professor in IUST).**

- **Finite Element Analysis**

Developed a program by C++ in order to read a truss structure from a text file and analyze the deformation, stress, and strain in every members of it. The code was validated by an ABAQUS simulation under the supervision of **Dr. Bijan Mohammadi(associated professor in IUST).**

- **Design of a shrimp farm in Persian Gulf**

It was a major part of our Engineering Design Course which it was done in a 4 member team and it consisted of preparing conceptual design, analytical design and detailed design. At the end of the semester the designed project was presented to the professor and student of the class. It was a good practice of real project and collaboration.

- **Ball Throwing Mechanism**

A structure was built to support the mechanism and a code was developed by Arduino to run the mechanism. The mechanism was calibrated to be able to get the input altitude (in a range) and throw a pingpong ball to reach that height. The project was done in a team of 3 students and under the supervision of **Dr.Borhan Beigzadeh (assistant professor in IUST).**

- **Simulating fluid flow around a rotating cylinder**

A code was developed in MATLAB using stream functions and the characteristics of flow was shown by tecplot software and the result verified by Ansys simulation. The project was under supervision of **Dr.Siavashi(associated professor in IUST)**

- **Simulating an experiment of dropping a ball in tall fluid cylinder**

The experiment was simulated in c++ to show the procedure graphically on a pc. The project was done under supervision of **Dr.Moghimi (assistant professor in IUST).**

Industrial.....

- **Polymer Concrete Slabs**

Designing and Building molds of Polymer concrete for water distillation slabs

- **Drip Irrigation System**

Designing a drip irrigation system for a 3000-square-meter (about 3588-square-yard) garden encompassing about 300 fruit trees of several different kinds. Choosing proper water pumps to deliver water to two tanks from a water well and to tress and sizing of pipes and etc. were involved in this project.

Skills

Computer.....

- Programming in C++
- Programming in MATLAB
- Abaqus
- Matlab Optimization
- Matlab GUI
- Catia
- Arduino
- Tecplot
- Keyshot

- Microsoft Office (Word, Excel, PowerPoint etc.)

Language.....

Persian: Native

English: Fluent- IELTS Band Score: **7.5**

Listening 7.5 - Reading 8.0 - writing 6.5 - speaking 7.5

Future Skills Planned.....

- GRE exam will be taken on October

Congress/workshop participation and presentation

- **CCFA-6 The 6th International Conference on Composites:** **Tehran, Iran**
Characterization, Fabrication & Application, IUST *Fall 2018*
 Executive committee member
<http://ccfa.iust.ac.ir/>
- **X-Mech 2018** **Tehran, Iran**
The Biennial International Conference on Experimental Solid Mechanics, IUST *Spring 2018*
 Executive committee member
<http://xmech.iust.ac.ir/>
- **Presenter** **Tehran, Iran**
The Biennial International Conference on Experimental Solid Mechanics, *X-Mech 2018*
<http://xmech.iust.ac.ir/>

Hobbies

- **Photography**
<https://fkashefin.wixsite.com/photog>
- **Psychology**
 As both of my parents are psychologists human behavior and psychology-related topics were our common topic when it comes to talking. Being in this atmosphere, psychology books are my favorites in my free times.
- **Playing soccer**

References

- **Dr. M.M Shokrieh**, Professor at Iran University of Science and Technology
Email: shokrieh@iust.ac.ir
Webpage: http://www.iust.ac.ir/page.php?slct_pg_id=1464&sid=16&slc_lang=en
Google Scholar: <https://scholar.google.com/citations?user=DZ84sC4AAAAJ&hl=en>
- **Dr. .S.Kazemirad**, Assistant professor at Iran University of Science and Technology
Email: skazemirad@iust.ac.ir
Webpage: http://idea.iust.ac.ir/page.php?slct_pg_id=18176&sid=16&slc_lang=en

Google Scholar: <https://scholar.google.com.ua/citations?user=HmIE8AQAAAAJ&hl=en>

- **Dr. Roohollah Talebitooti**, Associate Professor at Iran University of Science and Technology
Email: rtalebi@iust.ac.ir
Webpage: http://www.iust.ac.ir/page.php?slct_pg_id=13544&sid=16&slc_lang=en
- **Dr. Zamani**, Assistant Professor at Iran University of Science and Technology
Email: r_zamani@iust.ac.ir
Webpage: <http://physics.iust.ac.ir/find.php?item=17.10419.17938.en>