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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 115 Students

Tehran, Iran
Sep. 2014–Present

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

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)*
- *Fluid Mechanics I & II (4/4) (1st mark of class)*
- *Fluid Mechanics Lab (4/4) (1st mark of class)*
- *Introductory Finite Elements (4/4) (1st mark of class)*
- *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)*
- *Practical Plasticity and Metal Forming (4/4)*
- *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 & II (4/4)*
- *Mechanics of Material Lab (4/4) (1st mark of class)*
- *Heat Transfer I (4/4)*

- Automatic Control (4/4)
- General physics I & II (4/4) (Full Mark)

Experiences

Teaching Experiences.....

Design of Machinery Components II (TA)

Dr. Talebi Tooti
Feb – May 2018

Tehran, Iran
Iran University of Science and Technology

Mechanics of Materials I (TA)

Dr. Shokrieh
Sep 2017 – January 2018

Tehran, Iran
Iran University of Science and Technology

Mechanics of Materials I (TA)

Dr. Shokrieh
Sep 2016 – January 2017

Tehran, Iran
Iran University of Science and Technology

Physics I (TA)

Dr. Zamani
Feb – May 2016

Tehran, Iran
Iran University of Science and Technology

Physics Teacher

Summer 2014-Summer 2017,

Tehran, Iran
Koosar High School

Work Experiences.....

BMW sales and after sales service

Job internship, Workshop, problem diagnosis,

Tehran, Iran
Summer 2017

BMW sales and after sales service

Job internship, Workshop, problem diagnosis,

Tehran, Iran
Summer 2016

Honors and Awards

○ Admission to Sharif University Of Technology

Exempt from Msc. University Entrance Exam as an **Exceptional Talented Student**, September 2018

Tehran, Iran

○ Top Student of BSc: Iran University of Science and Technology

Rank **3rd** among 115 Mechanical Engineering students,

Tehran, Iran
September 2018

○ Top Student of the Year: Iran University of Science and Technology

Rank **3rd** among 115 Mechanical Engineering students,

Tehran, Iran
september 2017

○ Top Student of the Year: Iran University of Science and Technology

Rank **2nd** among 115 Mechanical Engineering students,

Tehran, Iran
September 2016

○ Top Student of the Year: Iran University of Science and Technology

Rank **2nd** among 115 Mechanical Engineering students,

Tehran, Iran
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

- Health Related Fields (Devices, Monitoring, etc.)
- Biomechanics
- Sensors
- Environment
- Renewable Energy
- Sustainable Development
- Nano Technology
- Wave Propagation

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)**.
- **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.Moghim** (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
- Arduino
- Matlab Optimization
- Matlab GUI
- Catia
- 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/>
- Voluntary participation in 1st International Conference on Clean Energy and Cogeneration Systems (ICECOGEN 2017)
- Voluntary participation in 5th National Conference on Renewable energy and Distributed Generation (ICREDG2017)

Hobbies

- **Photography**
<https://fkashefin.wixsite.com/photog>
- **Reading: mostly Psychology Related Books**
 As both my parents are psychologists I somehow was in the atmosphere since I was a child.
- **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