

AmirAli Basiri

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Education

- **Sharif University of Technology, Tehran, Iran**
M.Sc. Mechanical Engineering, Applied Design
GPA:17.54/20 (4/4)
09/2021- 09/2023 (expected)
Thesis: “Analysis and optimization of plug slips for water supply network”
Advisor: Dr. Jamal Arghavani
 - **University of Tehran, Iran**
B.Sc. Mechanical Engineering
GPA:17.28/20 (3.64/4)
09/2016- 02/2021
Thesis: “Designing and Manufacturing a composite grain spout”
Advisor: Dr. Mojtaba Haghighi Yazdi
 - **Salam Zeynoddin high school, Tehran, Iran**
Diploma in Mathematics and Physics
2012-2016
GPA:19.67/20 (4/4)
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Fields of Interest

- Optimum Design
 - Composite Materials
 - Finite Element Methods
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Work Experience

- **Teaching Assistant** January 2020– May 2020
Mechanical Engineering Design 1, School of Mechanical Engineering, University of Tehran
Instructor: Dr. Masoud Shariat Panahi.
 - Corrected students’ homework and quizzes.
 - Assisted the instructor in educating over 30 students.
 - **Teaching Assistant** September 2019 - January 2020
Mechanical Engineering Design 2, School of Mechanical Engineering, University of Tehran
Instructor: Dr. Masoud Shariat Panahi.
 - Organized the course projects which were designing a transmission system for an elevator.
 - Assisted the instructor in educating over 30 students.
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Selected Academic Activities

- **FEM**
 - Analyzed a truss in Abaqus, and wrote MATLAB codes for it.
 - Wrote MATLAB codes for CST and LST elements to analyze a beam.
- **Composite Materials**
 - Wrote MATLAB codes for macro mechanical analysis of lamina, micromechanical analysis of lamina, and macro mechanical analysis of laminates; it is considered user-friendly that anyone can use.
 - Designed a simple composite table.

- **Mechanical Engineering Design**

- Designed a complete gearbox consisting of shafts, angular contact ball bearings, helical gears, couplings, belt and pulley.
 - Wrote MATLAB codes to design a shaft; considered to be user-friendly, and can consider all types of bearings and gears.
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Honors and Qualifications

- Ranked 7th (1st percentile) in the applied design field in the nationwide university entrance exam (Konkur) for the master's degree in 2021
 - Ranked 245 (1st percentile) in the nationwide university entrance exam (Konkur) in 2016
 - Semi-finalist of Iran's 10th and 11th National Chemical Olympiad in 2014, 2015
 - Semi-finalist of Iran's 11th National Astronomy Olympiad in 2015
 - The first place in the 4th Salam Cup in the Chemical field in 2015
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Skills

- **Software Skill**

SolidWorks	Abaqus	MATLAB
Autodesk AutoCAD	AutoCAD Mechanical	Autodesk Simulation Composite Analysis
Microsoft Office	ANSYS Fluent	EES

- **Language Skills**

IELTS	Overall	Listening	Reading	Speaking	Writing
	7	8	7.5	6.5	6

GRE general	Verbal Reasoning	Quantitative Reasoning	Analytical Writing
	146	167	3

References

- **Dr. Jamal Arghavani**
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- **Dr. Mojtaba Haghghi Yazdi**
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- **Dr. Masoud Shariat Panahi**
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