

Kiarash Naghavi

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in Kiarash Naghavi 📍 Kiarash Naghavi 🏠 Tehran, Iran

EDUCATION

Sep. 2017 – present	B.Sc. in Aerospace Engineering GPA: 3.49/4.00 or 16.33/20 (135 Units) Last-two-year GPA: 3.87/4.00 or 18.18/20	SHARIF UNIVERSITY OF TECHNOLOGY
Spring 2021– present	Thesis Title: Multidisciplinary Design Optimization of a Nanorobot for Drug Delivery to Cancer Cells Based on Metaheuristic Algorithms, Under Supervision of Assoc. Prof. Ali Abedian	
Sep.2013 – May.2017	Physics and mathematics Diploma GPA: 4/4	MANDEGAR ALBORZ HIGH SCHOOL

RESEARCH INTERESTS

Multi-disciplinary Design Optimization
Robotics
Control systems
Finite Element Method
Machine Learning
Structural Design
Heuristic and Metaheuristic Algorithms
Solid Mechanics

HONORS & AWARDS & CERTIFICATIONS

2017 – present	Received Full Scholarship From Sharif University of Technology – Tuition Waive
2017	Ranked within the top 1% among approximately 140,000 participants in the Iranian Nation-wide University Entrance Exam Known as Konkour for B.Sc degree in Engineering
Summer 2021	Certification in Reinforcement Learning Workshop by Loop Academy
Summer 2019	Certification in Robotics and Mechatronics by Mehdi Masouleh, Robotech Academy
Aug. 2019	Certification in Combustion Modeling by Prof. Alberto Cuoci, The first Iranian Combustion School 2019

POSITION OF RESPONSIBILITY

Jun.2018 – Oct.2020	Sharif Aero Mega Project Design of an Electric Air taxi Position: Project Manager	SHARIF UNIVERSITY OF TECHNOLOGY
Summer 2020	Sabad Project Design a Station for Food Delivery Drone Position: Intern	SHARIF UNIVERSITY OF TECHNOLOGY
Summer 2019	ICS 2019 The first Iranian Combustion School Position: Executive Committee	SHARIF UNIVERSITY OF TECHNOLOGY

TEACHING EXPERIENCE

Spring 2021	Teaching Assistantship for the "Mechanics of Vibrations" Course Mechanics of Vibrations by Asst.Prof.H.Navazi	SUT
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ACADEMIC PROJECTS

Fall 2020	Conceptual Design of a Modern Regional Jet – 2021 American Institute of Aeronautics and Astronautics competition Airplane Design (I) by Assoc. Prof. A. Banazadeh
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Summer 2020	Design a Station for Food Delivery Drone – Sabad Project Internship by Assoc. Prof. A. Ebrahimi
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Spring 2020	Calculation of Sustainability Derivatives For a Commuter Aircraft Flight Dynamic (II) by Prof. H. Pourtakdoust
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Spring 2020	Calculation of Stress Concentration Coefficient Variations Using FEM Analysis of Aircraft Structures By Assoc. Prof. A. Kordkheili
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Spring 2020	Modeling and Simulation on a GE90 Engine Introduction to Propulsion By Assoc. Prof. M. Salehi
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Fall 2019	Finite Element Modelling for full and symmetric truss Using ABAQUS Introduction to Finite Element Method By Assoc. Prof. A. Abedian
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Fall 2019	An Optimization of Airline Design Costs For Students and Professors at Sharif University International Campus-Kish Island Transportation Aircraft Performance by Prof. M. Malaek
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Fall 2019	Numerical Simulations of heat transfer in a 2-D Fin using Finite Difference Method Heat transfer by Prof. M. Darbandi
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Summer 2019	Design-Build an autonomously operated able Rover Robotics and Mechatronics by Robotech Academy
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Spring 2019	Modeling and Simulation of a damper Using Simulink Vibrations by Prof. H. Hadadpour
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Spring 2019	Performance limit of daytime radiative cooling in a warm, humid environment Thermodynamics (II) by Assoc. Prof. M. Morad
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Spring 2019	Design-Build an Air Conditioner Using Peltier Thermodynamics (II) by Assoc. Prof. M. Morad
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Fall 2018	Design-Build a Tensile Test Device Mechanics of Materials by Assoc. Prof. A. Kordkheili
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Spring 2018	Develop Python Turtle Via C Fundamentals of Programming by Vis. Lect. M. Razian
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NOTABLE COURSES

Automatic Control: 18.6/20

Introduction to Finite Element Method: 18.5/20

Analysis of Aircraft Structures : 17.3/20

ENGLISH PROFICIENCY

IELTS Band Score: 7.5

Listening: 8.5 Reading: 7.5 Speaking: 7 Writing: 7

SKILLS

Programming Languages	MATLAB/Simulink, Python, C, Swift
Modeling Programs	Solidworks, AutoCad
Engineering Programs	ABAQUS, XFLR5, EES, CES Edupack, GasTurb, Expert Choice, Arduino, profil, Proteus, Systems Tool Kit
Project Management	Microsoft Project
Document Preparation	L ^A T _E X, Microsoft Office
Languages	Persian(Native), English(Fluent), German(Beginner)

REFERENCES

- References would be available upon request.