

Kiarash Naghavi

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in Kiarash Naghavi 📍 Kiarash naghavi Tehran, Iran

EDUCATION

Sep. 2017 – present	B.Sc. in Aerospace Engineering GPA: 3.5/4 or 16.3/20 (135 Units) Last-two-year GPA: 3.87/4 or 18.1/20	SHARIF UNIVERSITY OF TECHNOLOGY
Apr. 2021 – present	Thesis Title: Multidisciplinary Design Optimization of a Nanorobot for Drug Delivery to Cancer Cells Based on Genetic Algorithms, Under Supervision of Assoc. Prof. Ali Abedian	
Sep.2013 – May.2017	Physics and mathematics Diploma GPA: 4/4	MANDEGAR ALBORZ HIGH SCHOOL

RESEARCH INTEREST

Multi-disciplinary Design Optimization
Heuristic and Metaheuristic Algorithms
Operations Research
Machine Learning
Project Control

POSITION OF RESPONSIBILITY

Spring 2021	Mechanics of Vibrations Course Mechanics of Vibrations by Asst.Prof.H.Navazi Position: Teaching Assistant	SHARIF UNIVERSITY OF TECHNOLOGY
Jun.2018 – Oct.2020	Sharif Aero Mega Project Design of an Electric Airtaxi Position: Project Manager	SHARIF UNIVERSITY OF TECHNOLOGY
Summer 2019	ICS 2019 The first Iranian Combustion School Position: Executive Committee	SHARIF UNIVERSITY OF TECHNOLOGY
Summer 2018	Makeathon Plus Start-Up Business Competition Position: Team Member	SHARIF UNIVERSITY OF TECHNOLOGY

HONORS & AWARDS & CERTIFICATIONS

2017 – present	Received Full Scholarship From Sharif University of Technology – Tuition Waive
2017	Ranked within the top 1% among approximately 150,000 participants in the National Mathematics and Physics Entrance Examination from Iranian universities, Iran
Mar. 2020	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
2016	Certification in Math Kangaroo 2016 by Dr.Gregor Dolinar

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
Summer 2020	Design-Build a Food Delivery Drone – Sabad Project Internship by Assoc. Prof. A. Ebrahimi
Spring 2020	Drawing V-N Trim Diagram And Calculation of Sustainability Derivatives For a Commuter Aircraft Flight Dynamic (II) by Prof. H. Pourtakdoust
Spring 2020	Calculation of Stress Concentration Coefficient Variations Using FEM Analysis of Aircraft Structures By Assoc. Prof. A. Kordkheili
Spring 2020	Modeling and Simulation on GE90 Engine Introduction to Propulsion By Assoc. Prof. M. Salehi
Fall 2019	Finite Element Modelling for full and symmetric truss Using ABAQUS Introduction to Finite Element Method By Assoc. Prof. A. Abedian
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
Fall 2019	Numerical Simulations of heat transfer in a 2-D Fin using Finite Difference Method Heat transfer by Prof. M. Darbandi
Summer 2019	Design-Build an autonomously operatable Rover. Robotics and Mechatronics by Robotech Academy
Spring 2019	Modeling and Simulation of a damper Using Simulink Vibrations by Prof. H. Hadadpour
Spring 2019	Performance limit of daytime radiative cooling in a warm, humid environment Thermodynamics (II) by Assoc. Prof. M. Morad
Spring 2019	Design-Build an Air Conditioner Using Peltier Thermodynamics (II) by Assoc. Prof. M. Morad
Fall 2018	Design-Build a Tensile Test Device Mechanics of Materials by Assoc. Prof. A. Kordkheili
Fall 2018	Analytical and Numerical Solving Static Trusses Problem with ABAQUS Software Mechanics of Materials by Assoc. Prof. A. Kordkheili
Spring 2018	Develop Python Turtle Via C Fundamentals of Programming by Vis. Lect. M. Razian

NOTABLE COURSES

Automatic Control: 18.6/20

Introduction to Finite Element Method: 18.5/20

Analysis of Aircraft Structures : 17.3/20

Airplane Design (I): 19/20

SKILLS

Programming Languages	MATLAB/Simulink, Python, C, Swift
Modeling Programs	Solidworks, AutoCad
Engineering Programs	Abaqus, XFLR, EES, CES Edupack, GasTurb, Expert Choice, Arduino, profl, Proteus, Systems Tool Kit
Project Management	Microsoft Project
Document Preparation	L ^A T _E X, Microsoft Word
Presentation Spreadsheet	Microsoft PowerPoint, Prezi, Excel, Xmind, Pages, Keynote
Languages	Persian(native), English(Fluent), German(Familiar), Arabic(Familiar)