Kiarash Naghavi

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Kiarash Naghavi Kiarash Naghavi Tehran, Iran

Education

Sep. 2017 – present **B.Sc.** in Aerospace Engineering — Sharif University Of Technology
GPA: 3.49/4.00 or 16.33/20 (135 Units)
Last–two–year GPA: 3.87/4.00 or 18.18/20

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** — Mandegar Alborz High School
GPA: 4/4

Research Interest

Multi-disciplinary Design Optimization
Control System
Machine Learning
Structural Design
Finite Element Method
Artificial Intelligence
Targeted Drug Delivery

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** — Sharif University Of Technology
Design of an Electric Air taxi
Position: Project Manager

Summer 2020 **Sabad Project** — Sharif University Of Technology
Design a Station for Food Delivery Drone
Position: Intern

Summer 2019 **ICS 2019** — Sharif University Of Technology
The first Iranian Combustion School
Position: Executive Committee

Teaching Experience

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

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 a Station for Food Delivery Drone – Sabad Project**
Internship by Assoc. Prof. A. Ebrahimi

Spring 2020 — **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 a 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 operated able 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

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, XFLR5, EES, CES Edupack, GasTurb, Expert Choice, Arduino, profili, Proteus, Systems Tool Kit
Project Management	Microsoft Project
Document Preparation	LaTeX, Microsoft Office
Languages	Persian(Native), English(Fluent), German(Beginner) IELTS : Will be taken at November 6th, 2021

References

- **Dr. Ali Abedian**
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- **Dr. Hossein Mohammad Navazi**
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For more information, please visit my **Website**.