Siavash Emami

Undergraduate Student · Mechanical Engineering

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I'm a mechanical engineering graduate, currently employed as mechanical designer in ISENSE Co., a corporation specialized in health monitoring of structures with use of system identification and modal analysis. I'm interested in robotics, control theory and mechatronics. I believe learning is best combined with doing projects and through making use of received knowledge in application, that's why I tried my best to gain as much hands-on experience as I could during my bachelor studies. I like to pursue my passion in robotics and control theory by doing research in an academic environment. Particularly I'm interested in mobile robots, navigation and simultaneous localization and mapping (SLAM), and my thesis for my undergraduate degree was path planning of quadrotor UAVs.

Research Interests

Control Theory

System Identification · Intelligent Systems · State Estimation

Robotics

Mobile Robots · SLAM · Localization · Autonomous Navigation · Motion Planning · Computer Vision

Education_

Iran University of Science and Technology (IUST)

BS Mechanical Engineering

Tehran, Iran 2017 - 2022

- · Advisor: Dr. Esmaeel Khanmirza
- Thesis: Path Planning Quadrotor UAVs Using ROS
- CGPA: 3.39
- last 60 credits GPA: 3.49

Nokhbegan High School

HIGH SCHOOL DIPLOMA

Tehran, Iran

2013 - 2016

Experience_

2022 - **Mechanical Designer**, ISENSE CO.

2018 - 2022 Voluntary Member, Student Scientific Society (SSS) of Mechanical Engineering at IUST

2018 - 2022 Member of Editorial Board, Takane Magazine

2018 - 2020 Official Member, Language Institute and Cultural Center at IUST

Awards &	Certificates			
April 2020	Supervised Machine Learning: Regression and Classification, Coursera			
April 2020	Advanced Python Programming and Object-Oriented Thinking Course, Quera College			
March 2020	Task-Oriented Course in Fundamentals of Python Programming and Algorithmic Thinking, Quera College			
-	Bayesian Signal and Image Processing with Application on Vibration and Acoustics, Iranian Society of Acoustics and Vibration			
May 2019	Abaqus Course, Student Scientific Society of Mechanical Engineering at IUST			
August 2018	Beginner Matlab Course, Student Scientific Society of Mechanical Engineering at IUST			
August 2018	Beginner Solidworks Course , Student Scientific Society of Mechanical Engineering at IUST			
March 2018	Electrotechnic Course, Tehran Institute of Technology			
Teaching Experience				
Spring 2022	Simulink Workshop, Tutor	SSS of Mechanical Engineering at IUST		
August 2021	Control Theory, Private Teacher	Ziigiiieeiiiig acreei		
Fall 2020	Dynamics Course, Teaching Assistant	Dept. Mechanical Engineering, IUST		
Winter 2020	Vibration Course, Teaching Assistant	Dept. Mechanical Engineering, IUST		
Projects_				
Design and Building an Embedded Control Circuit for an Exercise Alarm Box DEPT. INDUSTRIAL DESIGN, IUST		Tehran, Iran Dec. 2021 - Jun. 2022		
Modeling and Flight Simulation of a Qaudrotor UAV Using Matlab and Simulink THESIS FOR BACHELOR DEGREE, DEPT. MECHANICAL ENGINEERING		Tehran, Iran Feb. 2020 - Mar. 2022		
Numerical Analysis of Flow in Cavity Using Matlab Introduction to CFD, Dept. Mechanical Engineering		Tehran, Iran Sept. 2021 - Jan. 2022		
Design and Building a Solenoid Engine Introduction to Mechatronics Course, Dept. Mechanical Engineering		Tehran, Iran Feb. 2020 - Mar. 2020		
Modal Analys VIBRATION COL	Tehran, Iran Feb. 2019 - Mar. 2019			

Languages		
Farsi Native - Mother Tongue		
English MODERATELY FLUENT		IELTS: 7.5 2022 - present
Skills		
Softwares Matlab · Simulink · Solidworks · Abaqus · LEX	Programming C++ · PYTHON · OOP · ARDUINO · ROS · GIT	