Siavash Emami

Undergraduate Student · Mechanical Engineering

Iran University of Science and Technology, Tehran, Iran

□+98 912-003-9440 | Siaemam@gmail.com | Siaemam.com | Siaemam □ siavash-emami | Siaemam

I'm a mechanical engineering graduate and I am interested in robotics, control theory and mechatronics. I believe learning is best combined with doing projects and through applying 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.

Education		
Iran University of Science and Technology (IU: BS MECHANICAL ENGINEERING • Advisor: Dr. Esmaeel Khanmirza • Thesis: Path Planning Quadrotor UAVs Using RC		Tehran, Iran 2017 - 2022
Nokhbegan High School High School Diploma		Tehran, Iran 2013 - 2016
Experience		
 2018 - 2022 Voluntary Member, Student Scien 2018 - 2022 Member of Editorial Board, Takan 2018 - 2020 Official Member, Language Institu 	9	
Languages		
Farsi Native - Mother Tongue		
English Moderately Fluent		IELTS: 7.0 2022 - present
Research Interests		
Control Theory	Robotics	
System Identification · Intelligent Systems ·	Mobile Robots · SLAM · Localization ·	

Computer Vision

Autonomous Navigation · Motion Planning ·

State Estimation

Skills_____

Softwares Programming MATLAB · SIMULINK · SOLIDWORKS · ABAQUS · LATEX C++ · PYTHON · OOP · ARDUINO · ROS · GIT

Awards & Certificates			
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 I	Experience		
Spring 2022	Simulink Workshop, Tutor	SSS of Mechanical	
		Engineering at IUST	
· ·	Control Theory, Private Teacher	Dept. Mechanical	
Fall 2020	Dynamics Course, Teaching Assistant	Engineering, IUST	
Winter 2020	Vibration Course, Teaching Assistant	Dept. Mechanical Engineering, IUST	
Projects_			
_	uilding an Embedded Control Circuit for an Exercise Alarm Box	Tehran, Iran Dec. 2021 - Jun. 2022	
_	Flight Simulation of a Qaudrotor UAV Using Matlab and Simulink CHELOR DEGREE, DEPT. MECHANICAL ENGINEERING	Tehran, Iran Feb. 2020 - Mar. 2022	
	alysis of Flow in Cavity Using Matlab TO CFD, DEPT. MECHANICAL ENGINEERING	Tehran, Iran Sept. 2021 - Jan. 2022	
_	uilding a Solenoid Engine TO MECHATRONICS COURSE, DEPT. MECHANICAL ENGINEERING	Tehran, Iran Feb. 2020 - Mar. 2020	
Modal Analys VIBRATION COL	is of a Cantilever Beam with Vibration Absorber Using Abaqus URSE, IUST	Tehran, Iran Feb. 2019 - Mar. 2019	