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## RESEARCH INTEREST

- DEEP SPACE EXPLORATION AND SPACE MISSION DESIGN
- SPACECRAFT DESIGN
- ARTIFICIAL INTELLIGENCE
- SENSOR FUSION

## EDUCATION

- M.SC. SPACE ENGINEERING** | University of Tehran | GPA = 4/4 2019-2021(exp)
- Ranked 1<sup>st</sup> universities in Iran based on [UsNews](#)
  - Ranked 1<sup>st</sup> among all masters students of aerospace department
- H-MBA** | Academic Center for Education, Culture and Research | GPA = 4/4 2019-2020
- B. ENG. AVIONICS** | Aviation Industry Training Center | GPA 3.8/4 2016-2019
- A.E.T. AIRCRAFT AVIONICS** | Civil Aviation Technology College 2013-2016

## SELECTED COURSES

### UNIVERSITY OF TEHRAN

ADVANCED ORBIT MECHANICS **3.57/4** | SPACECRAFT SYSTEM DESIGN **3.3/4**

### ACADEMIC CENTER FOR EDUCATION, CULTURE AND RESEARCH

PROJECT MANAGEMENT **3.96/4** | HUMAN RESOURCE MANAGEMENT **3.84/4** | PROBLEM SOLVING **3.68/4**

### AVIATION INDUSTRY TRAINING CENTER

SAFETY MANAGEMENT SYSTEM **3.9/4** | RELIABILITY IN AVIATION INDUSTRY **3.7/4**

### CIVIL AVIATION TECHNOLOGY COLLEGE

AIRCRAFT COMPUTER **4/4**

## TEACHING EXPERIENCE

- AVIATION INDUSTRY TRAINING CENTER (AITC)** 2018-2020
- 11 COURSES INCLUDING:** INTERNSHIP, AIRCRAFT INSTRUMENTS, MICROPROCESSORS, ...

## RESEARCH EXPERIENCE

- THESIS ADVISOR** 2018-2020
- **5 THESES INCLUDING:** DESIGN AND IMPLEMENTATION OF A 3 AXIS CNC MACHINE
- FORMER OF FUZZY LOGIC LAB INTEREST GROUP** 2020
- SHADX TEAM LEADER** 2020
- REFeree OF RESEARCH COUNCIL** 2019-Present
- THREE DEGREES OF FREEDOM TESTBED FOR CUBESAT** 2019
- ATTITUDE DYNAMICS, DETERMINATION, AND CONTROL
- DESIGN AFFORDABLE 3-AXIS CNC CO2 LASER CUTTING MACHINE** 2019-2020
- DESIGN AND IMPLICATION OF REMOTE SENSING-COMMUNICATIONS CANSAT** 2019-2020
- DESIGN AND FABRICATION OF 3-AXIS CNC MILLING MACHINE** 2019-2020
- DESIGN AND IMPLICATION OF SCIENTIFIC-EXPLORATION CANSAT** 2019-2020
- DESIGN MICRO MILLING MACHINE FOR PROTOTYPING MICROFLUIDIC DEVICES** 2019-2020
- RESEARCH ASSISTANCE** 2018-2020
- DESIGN AND FABRICATION OF AVIONICS SIMULATION SYSTEM** 2018-2019
- WIRELESS POWER TRANSMISSION (WPT) FOR MEDICAL PURPOSE** 2018-2019

## LAB EXPERIENCES

SPACE LAB | FUZZY LOGIC LAB | AVIONICS LAB | ELECTRONICS LAB | AIRCRAFT INSTRUMENTS

## INTERNSHIPS

AVIONICS | IranAir | Civil Aviation Technology College | Aviation Industry Training Center

## PUBLICATIONS

<b>FORMATION CONTROL UTILIZING RECEDING HORIZON ITERATIVE LEARNING CONTROL</b>	<i>Under Review</i>
ARMAN ASGHARPOOR, SADEGH NEMATYAN, MOHAMMAD HOSSEIN SABOUR, "AUTOMATICA"	
<b>NEURAL NETWORK BASED ESTIMATION: A REVIEW</b>	<i>Drafting</i>
ARMAN ASGHARPOOR, MOHAMMAD HOSSEIN SABOU, "NEURAL COMPUTING AND APPLICATIONS"	
<b>INERTIAL ATTITUDE ESTIMATION BASED ON NEURAL FUZZY COMPLEMENTARY FILTER</b>	<i>Drafting</i>
ARMAN ASGHARPOOR, MOHAMMAD HOSSEIN SABOU, "JOURNAL OF INTELLIGENT & FUZZY SYSTEMS"	

## SKILLS

<b>PROGRAMMING LANGUAGES</b>	<b>Experienced:</b> MATLAB   Arduino <b>Familiar:</b> Python   C++   LabView   Simulink   LaTeX
<b>FRAMEWORKS &amp; LIBRARIES</b>	<b>Familiar:</b> Jupyter   Matplotlib   Numpy
<b>CAD-CAM</b>	CATIA   SolidWorks   Inventor   Proteus   Altium Designer   AutoCAD
<b>CAE</b>	CST   ADS   ANSYS Workbench   ANSYS Electrical   Abaqus   COMSOL   HFSS
<b>SOFT SKILLS</b>	<ul style="list-style-type: none"><li>• Time Management, Punctuality, Extremely Coordinated and Goal-Directed</li><li>• Project Management, Teamwork, Conflict Resolution</li><li>• Multi-Tasking, Flexibility and Adaptation</li><li>• Problem Solving</li></ul>

## CERTIFICATES

**USERN** | Scientific Writing | Submission & Peer Reviewing | Data Analysis in SPSS | Systematic Review | Meta-analysis  
**NIGHTSKY INSTITUTE** | Astronomy I | Astronomy II  
**UNIVERSITY OF TORONTO** | State Estimation and Localization for Self-Driving Cars  
**IRANAIR** | Avionics Internship Training  
**ÉCOLE POLYTECHNIQUE** | How to Write and Publish a Scientific Paper  
**NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS** | Bridging the Gap to Leadership  
**MATHWORKS** | MATLAB Onramp  
**IRAN MARTIAL ARTS FEDERATION** | 3<sup>rd</sup> Grade Coaching

## MEMBERSHIP

Student's Scientific Research Center | Educational Development Center - TUMS | American Physical Society |  
Institute of Mathematical Statistics | Royal Statistical Society | Space & Satellite Professionals International |  
USERN R&D | RAeS | IEANG | SGAC |

## ACADEMIC PROJECTS

<b>QUANTUM COMPUTER (SEMINAR)</b>	2020
<b>CONCEPTUAL DESIGN AND MISSION ANALYSIS OF FIRESAT</b>	2020
<b>DETERMINE SATELLITE'S POSITION, VELOCITY, AND ORBIT (IN 3D)</b>	2020
<b>MODELING AND SIMULATION OF AEROSPACE VEHICLE DYNAMICS 5 DOF SIMULATION</b>	2020
<b>DESIGN, ANALYSIS, AND BUILD RC AIRPLANE</b>	2015
<b>ULTRA-SONIC DISTANCE MEASURING</b>	2014
<b>VLF RADIO TELESCOPE</b>	2013

## EXECUTIVE ACTIVITIES

<b>MEMBER OF 6<sup>th</sup> INTERNATIONAL USERN CONGRESS PRIZE AWARDING FESTIVAL</b>	2021
<b>MEMBER OF 4<sup>th</sup> STUDENT EDUCATION DEVELOPMENT FESTIVAL - TUMS</b>	2021
<b>MEMBER OF LAB TECHNIQUES SCHOOL EXECUTIVE TEAM - USERN</b>	2021
<b>MEMBER OF MTALK EXECUTIVE TEAM - USERN</b>	2021

<b>MEMBER OF ART IN MEDICAL EDUCATION WORKING GROUP - TUMS</b>	2021
<b>THE CORE MEMBER OF PUBLICITY TEAM - USERN</b>	2020
<b>THE CORE MEMBER OF MEDIA TEAM - USERN</b>	2020
<b>THE CORE MEMBER OF GRAPHIC AND DESIGN TEAM - USERN</b>	2020
<b>THE CORE MEMBER OF IT TEAM - USERN</b>	2020
<b>FORMER OF CULTURAL SOCIETY KARA - UT</b>	2019
<b>ORGANIZER OF CLIMATE CHANGE CONFERENCE - UT</b>	2019
<b>THE 23<sup>rd</sup> CONFERENCE OF ANNUAL GENERAL MEETING - TUMS</b>	2017
<b>WORLD ASTRONOMY WEEK</b>	2017
<b>ORGANIZER OF WATERROCKET COMPETITION - CATC</b>	2015
<b>THE 21<sup>st</sup> CONFERENCE OF ANNUAL GENERAL MEETING - TUMS</b>	2015
<b>THE 5<sup>th</sup> INTERNATIONAL AVIATION &amp; SPACE INDUSTRIES EXHIBITION OF IRAN - CATC</b>	2014
<b>THE 20<sup>th</sup> CONFERENCE OF ANNUAL GENERAL MEETING - TUMS</b>	2014
<b>THE 4<sup>th</sup> INTERNATIONAL AVIATION &amp; SPACE INDUSTRIES EXHIBITION OF IRAN - CATC</b>	2013
<b>ROAD &amp; URBAN DEVELOPMENT &amp; THE RELATED INDUSTRIES EXHIBITION - CATC</b>	2013
<b>THE 3<sup>rd</sup> INTERNATIONAL AVIATION &amp; SPACE INDUSTRIES EXHIBITION OF IRAN - CATC</b>	2012

## VOLUNTEER WORK

<b>THE 7<sup>th</sup> INTERNATIONAL FESTIVAL OF PAINTINGS FOR PEDIATRIC PATIENTS</b>   USERN Health And Art	2021
<b>MENTOR</b>   Space Generation Advisory Council	2020-Present
<b>PEST CONTROL</b>	2013-Present
Kahrizak Nursing Home for The Elderly and The Disabled   Sarai Ehsan Social Victims Center	
Kamraniyeh Charity Foundation   Tehran Foundation for The Mentally Handicapped   Vardavard Welfare	

## AWARDS & HONORS

<b>APPRECIATED PRESENTER</b>	2021
• USERN MINIATURE TALK	
<b>MARTIAL ARTS FEDERATION - NATIONAL COMPETITIONS</b>	
• GOLD MEDALIST   2011, 2012, 2018, 2019	
• SILVER MEDALIST   2015	
• BRONZE MEDALIST   2016, 2019	
<b>NEARU MARTIAL ARTS</b>	2019
• BLACK BELT DAN 2 <sup>nd</sup>	

## HOBBIES

Mentoring, Reading, Playing Chess, Going to Gym, Traveling