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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 1st universities in Iran based on [UsNews](#)
 - Ranked 1st 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

FORMATION CONTROL UTILIZING RECEDING HORIZON ITERATIVE LEARNING CONTROL

Under Review

ARMAN ASGHARPOOR, SADEGH NEMATYAN, MOHAMMAD HOSSEIN SABOUR, "AUTOMATICA"

NEURAL NETWORK BASED ESTIMATION: A REVIEW

Drafting

ARMAN ASGHARPOOR, MOHAMMAD HOSSEIN SABOUR, "NEURAL COMPUTING AND APPLICATIONS"

INERTIAL ATTITUDE ESTIMATION BASED ON NEURAL FUZZY COMPLEMENTARY FILTER

Drafting

ARMAN ASGHARPOOR, MOHAMMAD HOSSEIN SABOUR, "JOURNAL OF INTELLIGENT & FUZZY SYSTEMS"

SKILLS

PROGRAMMING LANGUAGES *Experienced:* MATLAB | Arduino

Familiar: Python | C++ | LabView | Simulink | LaTeX

FRAMEWORKS & LIBRARIES *Familiar:* Jupyter | Matplotlib | Numpy

CAD-CAM CATIA | SolidWorks | Inventor | Proteus | Altium Designer | AutoCAD

CAE CST | ADS | ANSYS Workbench | ANSYS Electrical | Abaqus | COMSOL | HFSS

- SOFT SKILLS**
- Time Management, Punctuality, Extremely Coordinated and Goal-Directed
 - Project Management, Teamwork, Conflict Resolution
 - Multi-Tasking, Flexibility and Adaptation
 - Problem Solving

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 | 3rd 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 |

WORK EXPERIENCE

MANAGER

2013-Present

- ARMAN IMEN PASSARGAD, TEHRAN, IRAN

INSTRUCTOR

2018-Present

- AVIATION INDUSTRY TRAINING CENTER, TEHRAN, IRAN

EMPLOYEE

2019-2020

- TUCAN MAHAM FAN, TEHRAN, IRAN

MARTIAL ARTS INSTRUCTOR

2015-Present

- IRAN MARTIAL ARTS FEDERATION, TEHRAN, IRAN

ACCOUNTANT

2013-2017

- CHOPIN RESTAURANT, TEHRAN, IRAN

ACCOUNTANT

2011

- AGAH TARAZ ARGHAM, TEHRAN, IRAN

ACADEMIC PROJECTS

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

EXECUTIVE ACTIVITIES

MEMBER OF 6 th INTERNATIONAL USERN CONGRESS PRIZE AWARDING FESTIVAL	2021
MEMBER OF 4 th STUDENT EDUCATION DEVELOPMENT FESTIVAL - TUMS	2021
MEMBER OF LAB TECHNIQUES SCHOOL EXECUTIVE TEAM - USERN	2021
MEMBER OF MTALK EXECUTIVE TEAM - USERN	2021
MEMBER OF ART IN MEDICAL EDUCATION WORKING GROUP - TUMS	2021
THE CORE MEMBER OF PUBLICITY TEAM - USERN	2020
THE CORE MEMBER OF MEDIA TEAM - USERN	2020
THE CORE MEMBER OF GRAPHIC AND DESIGN TEAM - USERN	2020
THE CORE MEMBER OF IT TEAM - USERN	2020
FORMER OF CULTURAL SOCIETY KARA - UT	2019
ORGANIZER OF CLIMATE CHANGE CONFERENCE - UT	2019
THE 23 rd CONFERENCE OF ANNUAL GENERAL MEETING - TUMS	2017
WORLD ASTRONOMY WEEK	2017
ORGANIZER OF WATERROCKET COMPETITION - CATC	2015
THE 21 st CONFERENCE OF ANNUAL GENERAL MEETING - TUMS	2015
THE 5 th INTERNATIONAL AVIATION & SPACE INDUSTRIES EXHIBITION OF IRAN - CATC	2014
THE 20 th CONFERENCE OF ANNUAL GENERAL MEETING - TUMS	2014
THE 4 th INTERNATIONAL AVIATION & SPACE INDUSTRIES EXHIBITION OF IRAN - CATC	2013
ROAD & URBAN DEVELOPMENT & THE RELATED INDUSTRIES EXHIBITION - CATC	2013
THE 3 rd INTERNATIONAL AVIATION & SPACE INDUSTRIES EXHIBITION OF IRAN - CATC	2012

VOLUNTEER WORK

THE 7 th INTERNATIONAL FESTIVAL OF PAINTINGS FOR PEDIATRIC PATIENTS USERN Health And Art	2021
MENTOR Space Generation Advisory Council	2020-Present
PEST CONTROL	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

APPRECIATED PRESENTER USERN Miniature Talk	2021
MARTIAL ARTS FEDERATION - NATIONAL COMPETITIONS	
• GOLD MEDALIST 2011, 2012, 2018, 2019	
• SILVER MEDALIST 2015	
• BRONZE MEDALIST 2016, 2019	
NEARU MARTIAL ARTS Black Belt Dan 2 nd	2019

HOBBIES

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