

Parsa Abbasrezaee

Project & Satellite System Engineer

Contact



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Education

✓ Primavera (P6) & Microsoft Project (MSP),

ACEMI Institute,
Gold Grade A Certificate,
Nov & Oct 2021

✓ Project Planning & Scheduling,

ACEMI,
May 2021

✓ Special Master of Aerospace Engineering,

Sapienza University of Roma,
Oct 2020- Present

✓ Project Management Professional (PMP),

PMI Institute Certificate
Dec 2020-2023

Profile

Project & Satellite System Engineer who has +3 years of experience in Satellite system engineering & +2 year planning & scheduling the satellite project tasks in, Nasir_1 a 3U engineering model CubeSat, utilizing the work breakdown structure (WBS) & Rolling wave planning to go through the detail of schedule, sequence & relation of the activities in the project's life cycle.

Professional Experience

Project Engineer

Nasir-1 3U CubeSat

Jan 2018-
Sep 2020

- Schedule and coordinate meetings, appointments of the team members for the subsystem & system Interferences & problems, changing requirements & analysing the effects of them on other subsystems or system
- Assisting the project manager for the schedule & resource management
- Utilizing Rolling wave planning for detailing the work breakdown structure WBS to activities for making clear the Subsystems & system design activities, Cost, facilities, resources
- Getting, estimating the activities schedules, cost of material, labour cost, relations, duration
- Finding the critical path of the project schedule with the change orders & updating the project schedule
- Documenting the projects changes, Getting S curve, Getting the EVM, EV, AC, SV, CPI, SPI, Critical path

Satellite System engineer

Nasir-1 3U CubeSat

Jun 2017-
Sep 2020

- Defining the system operational modes (Start, Safe, Normal, Ideal, Degradation) & Their procedures
- Mission analysis for finding the optimum power consumption & Payload operation times
- Responsible for gathering & defining the requirements and interference requirements of the subsystems & system level
- Responsible for Integration Assembly & testing (IAT) of the system, Testing the subsystems & system, preparing test procedures
- writing the system documents AITP, COMM, DDF, ICD, TS, VP, Payload (Sail Drag & V/UHF antenna mechanism)
- Team working & surmounting the critical problem or helping the team members to achieve the project goals in the right time right way
- Giving or getting some advice or brainstorming acquiring the best solution of the facing problems even in different point of views or experts with the team members

✓ **M.Sc. of Space Engineering,**
K.N.Toosi University of Technology,
Sep 2016-2018

✓ **B.Sc. Aerospace Engineering,**
Azad University,
Sep 2012-2016

Key Skills

Primavera P6, MSP



Project Management knowledge



Critical Thinking, Solution Providing



SolidWorks, MATLAB



Perfect Team working sprits



Great Passion for learning, Advanced communicational skills



System Engineering & Analysis of Complex System Processes



Languages

English,
Fluent

Persian,
Mother tongue

Azari,
Mother tongue

Turkey
Fluent

Italian
A2

Sail Drag Designer
Nasir-1 CubeSat

Sep 2017-
May 2020

- Getting the requirement & analysis of the requirement on the design model
- Designing a two -sided passive Sail Drag compatible with the system requirements
- Prototyping of the first models and achieving the best design for the CubeSat model
- Testing the models to be sure of the functional operation
- Testing the final design in the system level tests
- Read the paper for further information:

(https://jast.ias.ir/article_139284.html)

V/UHF Antenna Mechanism Designer
Nasir-1 CubeSat

Aug 2018-
Jan 2020

- Getting the requirement & analysis of the requirement on the design model
- Designing a Simple & Reliable mechanism compatible with the system & TT&C antenna requirements
- Prototyping of the first models and solving the problem of the design
- Testing the mechanism for releasing the antennas in the specific Angeles with the Burn wire mechanism
- Testing the final design in the system level tests with the ground station command

Space Planner Engineer
SHEZAN Accelerator and Innovation Centre · Part-time

Jun 2017-
Sep 2017

- Gathering the information of the NASA (Spinoff) technologies and analysis of the usage in the daily life for Start-ups
- Planning the tasks & helping or giving some good advice for the Start-ups to develop their first model design & prototyping

Journal & Conference Papers

- ✓ **System Design & Analyses of the GEO All-Electric Communication Satellites**, ISI JATM Journal, Submitted 06 July 2020, Accepted 10 December 2020, published 2021
- ✓ **Designing, construction and testing a passive, two-sided, and efficient de-orbiting mechanism for CubeSats**, JAST Journal, Volume 14 Issue 2, Summer & Autumn 2021
- ✓ **Conceptual GEO Telecommunication All Electric Satellite Design Based on Statistical Model**, IEEE, 9th RAST 2019 Conference, 2019 Istanbul Turkey 11-14 June
- ✓ **Feasibility of Space exploration for human missions to Mars and ORION spacecraft Life Support Systems**, 16th International Iranian Aerospace Society Conference, February 2016 Tehran, Iran (Persian)

Team-working Awards

- ✓ **First** in the competition of Designing, Manufacturing & Testing the Engineering model 3U-CubeSat (Nasir-1 project at K.N,Toosi University of Technology) among 25 Universities, continuously with high effort of three years students & graduated students team working

I was responsible for different positions such as project engineer, satellite system engineer, designing a de-orbiting drag sail mechanism & antenna mechanism designing

Other interests

Project Planning & Scheduling, Space Engineering, Satellites System Engineering, Astronomy, Basketball Playing, Karate Playing, Astrophotography, Space Debris Removal Arms, Space Startups, Project management, Leadership, Communication with different people with different point of views