

ARJUN MONGA

Project Leader & Aerospace Systems Engineer

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SKILLS

Software

Autodesk Fusion 360
Autodesk Inventor
Python
C/C++
NI Labview
Ansys Fluent/CFX

Hardware

TVAC testing
Vibration testing
Test rig setup
Mechanical and electrical assembly
Manufacturing
3D printing

LANGUAGES

English (Fluent)
Swedish (A2)
Hindi (Fluent)

INTERESTS

Biking, Hiking, Chess,
Cooking

EXPERIENCE

Institutet för Space Rymdfysik, Kiruna | Research Engineer | Apr 2025 - Present

- Experiment manager for IRF's particle instrument onboard ISRO Venus Mission.
- AIT and PA/QA manager for two flight instruments for the ESA Comet Interceptor mission. Led multiple TVAC and vibration test campaigns.
- Operations and commercial manager for SpaceLab, IRF's flight qualification infrastructure.

Hydromars AB, Stockholm | Space Technology Development Engineer | Jan 2023 - Jan 2025

- Developed Hydromars' first space product from concept to delivery in less than 15 months.
- Validated terrestrial membrane-based water purification technologies for space applications.
- Performed mission-critical test campaigns such as high-g random vibration testing, quasi-static load testing, mechanical shock testing, EMC testing (MIL-STD-461), and thermal testing.

Kungliga Tekniska Högskolan, Stockholm | Research Assistant | Oct 2022 - Jan 2023

- Performed computational fluid dynamics (CFD) analysis on a next-generation high efficiency aircraft engine concept (contracted by Forsvarets Materielverk).
- Found high correlation between analysis results and experimental data within 3 months resulting in a decision for further study.

Rocket Experiments for University Students (REXUS), Stockholm | AIT Engineer | Sept 2020 - Apr 2023

- Developed and tested suborbital payload ejection mechanism and parachute recovery system resulting in successful performance and recovery.
- Represented Kungliga Tekniska Högskolan at Esrange Space Center, Sweden as Ejection System Lead during the launch campaign.

EDUCATION

Kungliga Tekniska Högskolan, Stockholm | MSc Electromagnetics, Fusion and Space Engineering | Aug 2020 - Sep 2022

Master's Thesis: Conceptualisation, Implementation and Commissioning of a Controlled Pyrolysis Rig. Developed an experimental setup to test high temperature rocket nozzle materials in presence of methane fuel.

Relevant subjects: Space Physics, Astrophysics, Electromagnetic Theory and Modelling, Systems Integration, Spacecraft Engineering, Global Navigation Satellite Systems (GNSS)

Delhi College of Engineering, New Delhi | Bachelors of Technology in Engineering Physics | Aug 2016 - May 2020