



Design and Implementation of a Hinge Mechanism for CubeSat Deployable panels (Master Thesis/ Practical)

TOM is a satellite formation flying mission currently under development. The aim of this mission is to perform stereo observation of volcanic ash clouds using 3 CubeSats. Due to high power consumption deployable solar panels are required for 3U CubeSats.

Tasks

- Market research of available solutions
- Design the spring loaded hinge mechanism
- Thermal and mechanical simulations
- Manufacture and test the hinge mechanism

Required Previous Knowledge

Mechanical engineering, Thermal and Mechanical simulations

Language

English

Contact

M.Sc. Ilham Mammadov: ilham.mammadov@telematik-zentrum.de