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

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