



Second Joint Laureate Applied Research

- ◆ **Project Title:** Design, Manufacturing of Micro satellite Launcher Tester-OMID
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Abstract:

Omid micro-Satellite mission has been devised to get the maximum reliability with minimum risk in a communication link to achieve: 1- orbit determination 2- telemetry of housekeeping parameters of the satellite 3- telecommand to satellite. Omid micro-satellite has a cubic configuration with length of 40cm, weight of 27Kg and honeycomb construction. It is free flying and hence has omni directional antenna. Thermal control subsystem is passive and the payload is injected into an elliptical orbit of 250 - 350Km. Its useful life is one month. Laboratory and engineering models were designed and manufactured for operational test and a space-version to withstand environmental conditions was eventually manufactured.