Thermal Control Nano-Sat

Eclipse Energy Systems, Inc.

Technical Abstract
Based on successful space testing onboard the Midstar1 satellite, Eclipse Electrochromics have been identified by a number of organizations as well as NASA as a high interest technology. For nanosats, the critical design challenge is achieving autonomous control of the EclipseVED™ technology and demonstrated the capacity to have automated control thermal systems capable of in-flight thermal regulation of a cubesat or other small satellite. In Phase II, Eclipse will build a complete multi-panel cubesat and work with NASA to lab test a completely functional prototype and review the capacity to utilize the ECDs concurrently with photovoltaics.

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Small Sat Analysis Laboratory
Cybernet Systems Corporation

Technical Abstract
Develop Small Satellite Analysis Laboratory (SatLab): A simulation-of-simulations framework to integrate component and engineering simulations into a single larger simulation capable of full satellite system trade analysis and optimization, in order to reduce the cost and increase the quality of design and development of new small satellites and space vehicles, and test system upgrades and modifications on other space systems.

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