

Description of Research Project

The overall goal of the Aeternitas mission, is to provide a hands-on, student-led flight project experience for Old Dominion University undergraduate students by designing, developing, integrating, testing and flying a 1U CubeSat. Also, we will obtain measurements of the orbital decay, and work with other universities with similar data to develop a database of atmospheric drag and the variability of atmospheric properties. We will deploy drag braking fins to accelerate the demise of the spacecraft, and compare this demise rate with that for similar satellites without a drag brake.

The Experimental License requested, is necessary to authorize radio transmission of data between the Aeternitas satellite and the ground station at the Old Dominion University campus.