

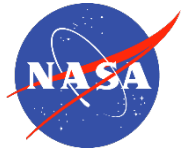


STMD's Early Career Initiative: On-Orbit Autonomous Assembly from Nanosatellites

2017/07/28

Luke Murchison

A Little Personal Background



- Graduated in 2011 from the University of Washington
 - Intern at NASA Langley in 2008, 2009 & 2010
- Hired into the Structural and Thermal Systems Branch as a Structures Analyst in 2011



Shell Buckling



Remote Sensing
Instruments

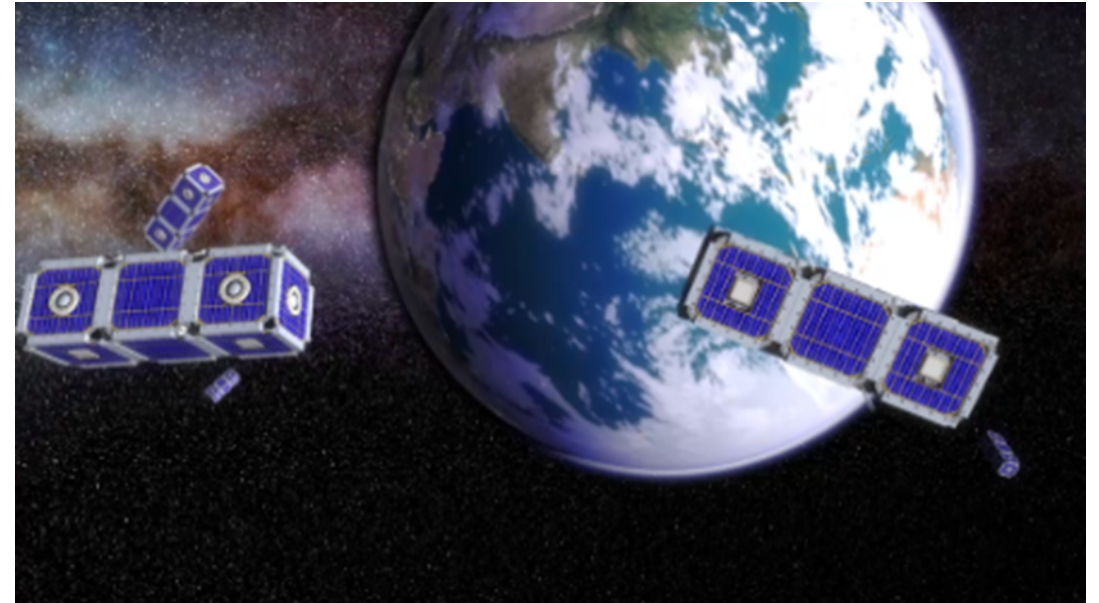


Launch Abort System

STMD Early Career Initiative: OAAN



- Led from Proposal through execution
 - Early Career Team (Avg. <4 years exp.) partnered with Cornell University
 - Hands-on, rapid design build test
- Objectives
 - Develop and Test Autonomous rendezvous and docking technologies for on-orbit assembly applications
 - Explore Agile Methods



OAAAN Experience

