Space Technology and Services

Proven and trusted provider of affordable, highly-reliable, space-qualified avionics and flight software for NASA, DoD, and commercial applications
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Two Decades of Experience
Serving the Space Industry

Northrop Grumman Space Technology and Services (STS) has served the avionics and flight software needs of the space industry for more than two decades. STS has supported 27 missions with avionics content on more than 30 percent of all operational NASA satellites.

STS entered the space business specifically to address NASA’s smaller, faster, cheaper satellite challenges and supported four of the first seven Small Explorer programs with enabling technologies. With the distinction of being the corporation’s Center of Excellence for High Density Electronics and Design Automation, STS is well suited to address the emerging SmallSat market.

STS provided all the avionics and flight software for two of NASA’s very high profile satellites:

• EO-1 was designed and built for the Goddard Space Flight Center for an 18 month mission. Almost 12 years later EO1 is still operational and servicing its customers. This cost constrained, single string spacecraft demonstrated many space technologies for the first time: X-Band Phased Array Antenna, Wideband Advanced Recorder and Processor, Enhanced Formation Flying (GSFC Algorithm), Enhanced Formation Flying (JPL Algorithm), Pulsed Plasma Thruster, Lightweight Flexible Solar Array, Carbon-Carbon Radiator and LA-II Thermal Coating.

• LCROSS is one of NASA’s most highly awarded missions in recent history. Northrop Grumman designed and built the LCROSS spacecraft for the Ames Research Center. In addition to achieving mission’s challenging cost and schedule objectives, LCROSS discovered water on the moon.

In 20 years of serving the space industry, STS’ greatest distinction is that nothing built by the facility has ever failed on orbit. We attribute this success to a focus on reliability physics as it relates to space.

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