Axient Capability Highlight: Small Satellite Team (Space Monkey)

Executive Summary

Axient's Small Satellite team is agile, aggressive, shaped by history and heritage, and comprised of innovative and experienced experts with more than 140 years of collective CubeSat experience. Axient's expertise and legacy extends back to the beginning of the development of CubeSats. As spacecraft integrators who specialize in developing concepts and maturing CubeSat capabilities, Axient partners with customers to serve the R&D community by developing, assembling, integrating, launching, and flying on-time, on-cost, reliable CubeSat missions (3U and up). Whatever the mission requires, Axient delivers market credibility and reliability to explore the art of possible.

Core Capabilities

- Concept Design & Development
- Flight Software Development
- Assembly, Integration, & Testing
- Launch Integration
- Mission Operations

OVERVIEW

CubeSats have become a vital commodity within space architectures because they complement larger missions. They also inform new ways of doing business with low-cost demonstrations. Axient's SmallSat capability enables the space community to test and/or prove technologies to enable a mission or pursue new mission architectures. Some mission integrators don't build buses or possess the unique knowledge of Axient, so we are positioned to be a dedicated partner to those solution providers.

Axient's SmallSat team leverages 140+ combined years of previous CubeSat experience delivering expertise to AFRL's Small Satellite Portfolio (SSP), including missions such as SHARC, VPM, XVI, Ascent, Recurve, and others. With instant credibility and knowledge of satellite development and manufacturing, Axient can serve both military and commercial customers. Axient's SmallSat processes are reliability- and resiliency- focused with a continuous drive towards new innovations. As a convenient and cost-competitive CubeSat solutions provider, Axient designs, develops, and delivers for experimental missions, as well as complementing larger operational hybrid space architectures.

FLIGHT SOFTWARE HIGHLIGHT

Our flight software enables successful CubeSat missions. Our unique and innovative modular, app-based approach allows for highly flexible, resilient, and configurable flight software for a wide array of missions. It is stable, reliable, highly resilient, and also allows for graceful degradation—contributing to industry-leading innovation.

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