P Space domain capabilities

i3's efforts in space operations find their foundations in our 10+ years as a NASA prime contractor, extending to every capability and corner of the company. Whether it's our Science, Engineering & Technology (SET) business unit, our Aviation Engineering & Logistics Services (AELS) business unit, our CREWS (Cyber, Resiliency, and Electronic Warfare Systems) portfolio, or our TADSS (Training Aids, Devices, Simulations, and Simulators) portfolio, i3's capabilities align naturally with space defense, space science and exploration, and the emerging space economy. From our extenstive proficiency in digital engineering and MBSE, system design, prototyping, integration/testing, to our expertise in training solutions and software engineering, 3D development, user experience and instructional design – and even cyber, known colloquially by Lt Gen. Stephen Whiting, head of Space Operations Command, as the "soft underbelly" of their operations – i3 has what space needs.

NASA PRIME FOR OVER A DECADE

"You can't tell who's from i3 and who's a NASA civil servant." This is one of many accolades, alongside the 26 awards and recognitions from the NASA Armstrong Flight Research Center, to which we hold fast. Our on-site SMEs (Subject Matter Experts) are so enmeshed with their government colleagues, we're often mistaken for one of them.

But with the kind of work we do together, it's easy to see why: i3 supports mission-critical satellite remote sensor observation for earth sciences, high-altitude flight tests of satellite equipment, hypersonic interoperability testing, aeronautical research, flying laboratories and observatories, and more for our NASA customer. And that's just scratching the surface.



AGENCY, OFFICE, AND CONFERENCE ABUNDANCE

Multinational and wide-reaching, our efforts with NASA over the years have broadened into support for DARPA (Defense Advanced Research Projects Agency), NCAR (National Center for Atmospheric Research), NOAA (National Oceanic and Atmospheric Administration), ORNL (Oak Ridge National Laboratory), NSF (National Science Foundation), Draper Labs, and even the DLR (German Aerospace Center) and NIER (National Institute of Environmental Research in South Korea). Our Huntsville headquarters are also in MDA and SMDC's locale, for which we do engineering, testing, and more.

And when we're not at SMDC's annual SMD symposium here, or MDA's Missile Defense Conference in DC, we're across the country at events like the AFA (Air & Space Forces Association) Conference, DISC (Defense and Intelligence Space Conference), DEPS (Directed Energy Professional Society) Symposium, the Innovation Symposium, and Sea-Air-Space.



SPACE DOMAIN AWARENESS

Whether underflying satellites to calibrate sensor equipment, flying ER-2 Earth resources aircraft for environmental and atmosphere sampling of large regions of the remote atmosphere, piloting Global Hawks to test hypersonic equipment through the SkyRange program, remotely operating DC-8 research aircraft for the Atmospheric Tomography (ATom) and KORUS-AQ missions, testing the Orion Ascent Abort (AA)-2 system in preparation for Artemis missions to the moon, or flying SOFIA (Stratospheric Observatory for Infrared Astronomy aircraft on over a hundred missions, i3's history of flight testing, piloting knowledge, and more has stood the test of time.

A FLIGHT TEST MISSION, TESTED

"Scientists want to go to exciting places, not boring flat ones." Michelle Munk, EDL Capability Lead and Acting Chief Architect and for the Space Technology Mission Directorate at NASA Headquarters

The Mars rover, Perseverance, had to touch down on the Red Planet along unique geological terrain — and i3's support to validate the rover's Terminal Descent Radar (TDR) during COVID-19 lock down around the world was recognized by numerous groups within NASA as well as written about on NASA.gov. If the test had been paused, the mission would have been paused: launch would slide two years to the right.

This mission-critical work, where i3 and NASA had to put health and safety of each other first, ensured mission success that clear July launch day at Cape Canaveral.



HOW TO GET TO US

With contracts on the TETRAS II, SkyRange OTA, GSA/OASIS & OASIS+, i3 makes it straightforward to get to us for any and all space domain efforts. Our office in Orlando, Florida – where we develop immersive software training solutions – is a brief drive to and from Patrick Space Force Base in Brevard County, Florida.

SPACE DOMAIN CAPABILITIES, EVER-EXPANDING

i3 has extensive knowledge supporting guidance systems, navigation and control (GNC), advanced materials and structures, propulsion, launcher design and analysis, airworthiness release testing — and the digital engineering/MBSE prowess to design, implement, test, and validate systems and systems-of-systems for all the aforementioned. Tie our immersive XR, desktop, mobile, simulator, and HWIL experience into the loop, and we offer the full system lifecycle for any platform we work on, from inception and instantiation to real-world training. Our data science, AI, and analytics services also bring to bear robust data governance, AI model security, and analytics, addressing the most complex problems through capabilities like decision-making support, predictive maintenance, data visualuzation, and beyond.

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CONTACT INFORMATION

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