

Engineering and Manufacturing Services

Engineering & Manufacturing Services

CORE CAPABILITIES:

Decades of experience with formulation to implementation of flight and ground hardware/software systems and subsystems

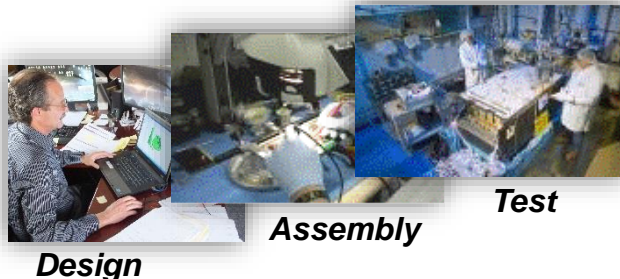
- Product and Mission Assurance
- Manufacturing (IPC standards, 8739, Subtractive and Additive Manufacturing)
- Flight and Ground Safety
- Safety & Health
- Project Management (PMP certified project managers)
- Configuration Management
- Change Control Processes
- Risk Management
- Parts and Material Control and Tracking
- Power & Avionics Systems
- Systems Engineering
- Instrument/Sensor Systems
- Embedded Systems (hdw & sw)
- Space Communications
- Composite Design & Analysis
- Engineering Analysis & Modeling
- Flight and Ground Hardware Integration & Operations
- Human Performance Data Analytics



ZIN Technologies (ZIN) is a minority owned Small Business leader in the development of complex space flight systems. 250+ person organization consisting of experienced scientists, multi-disciplinary engineers, designers, technicians, operators and QA. AS9100C certified facilities and quality management systems.

ZIN has designed, fabricated and operated over 230 man-rated space flight payloads with thousands of hours of space flight operations logged on the shuttle, MIR, & ISS. Our experience includes ISS research investigations, Space Launch Systems, Orion, commercial crew, satellite (IMU) accelerometer systems (Class B), human research projects and support

ZIN has developed Class A/B systems (Power, Instrumentation, Inertial Navigation) for long duration missions, with radiation requirements.



- ❑ Manufacturing - 60,000 sq. ft. Spaceflight hardware assembly area with electronic buildup capability, and fabrication
- ❑ Digital Thread - In-house Agile Manufacturing direct laser melting capability
- ❑ AS9100C Certified Quality Management System
- ❑ Mechanical Manufacturing
 - ❑ Clean room & laminar flow workspace
 - ❑ Machine Shop, Additive Manufacturing (DLS)
 - ❑ Property Management, shipping and receiving area, and a climate controlled bonded storage.
 - ❑ Manufacturing Work Order Process
- ❑ Electrical Manufacturing
 - ❑ Electrical Assembly Technicians
 - ❑ PWA assembly laboratory where circuit boards can be processed, assembled, cleaned and conformal-coated.
 - ❑ Trained and certified to NASA 8739 standards
 - ❑ Inclusive of Harness, cable design, development & Test



ZIN Technologies



Voyager Space External Use
johansonm@zin-tech.com | www.zin-tech.com