



CAPABILITIES

- ◆ System design, manufacture, test, and integration
- ◆ Precision data acquisition (wired and wireless)
- ◆ RF communication, PCM encoding
- ◆ Software (embedded and PC)
- ◆ Hypervelocity Impact (HVI) detection, location & evaluation
- ◆ Smart rechargeable Lithium-Ion batteries (Qualified to RCC-319 for flight termination)
- ◆ Ground support equipment
- ◆ Systems field support
- ◆ Environmental Testing (Thermal and Vibration)
- ◆ Personnel and facilities with secret clearance

EXPERIENCE 40+ YEARS

- ◆ Numerous SBIR/STTR contracts with Navy, Air Force, MDA, NASA, DOE, and NSF
- ◆ Multiple contracts with commercial aerospace customers including Airbus, Aerospace Corporation, X-Bow, SpaceX, Lockheed Martin, Northrup Grumman, Corvid, and Kratos
- ◆ Suite of rocket telemetry and power control components
- ◆ Delivered multiple systems supporting RCC-319 range requirements

SPACECRAFT INSTRUMENTATION

- ◆ International Space Station (ISS)- 10 systems
- ◆ Satellites
- ◆ Space Shuttle- 17 unique system on over 40 flights
- ◆ Launch vehicles- numerous

Missile Instrumentation - Over 100+ Flights

- ◆ Event initiation
 - ◆ Capacitive Discharge Initiator (CDI)
 - ◆ Solid State Initiator (SSI)
- ◆ Vehicle electrical power
 - ◆ Flight termination batteries (3.2Ah, 0.74Ah)
 - ◆ Vehicle instrumentation batteries (7.5Ah)
- ◆ Lethality assessment
 - ◆ Impact location systems, hit-to-kill and fragmenting engagements
 - ◆ Wired hit grids, hit panels, and acoustic sensor technologies

PRODUCTS AND SERVICES



Lithium-Ion Rechargeable Batteries

- ◆ Sophisticated battery management
- ◆ Smart Batteries
- ◆ Rugged, reliable design for use in mission critical applications, e.g. FTS flight termination systems



Lethality Assessment Systems

- ◆ Wire grid and 'grid-less' acoustic measurement systems
- ◆ More than 40 flights in support of Navy and MDA programs
- ◆ Hit Panel solutions for complex geometries



Flight Computer

- ◆ Rugged aerospace-grade flight computer
- ◆ Multiprocessor architecture paired with high-performance programmable logic.
- ◆ Interfaces including IMU/INS, GPS/ GNSS, TVC, RCS, engine control, and telemetry.
- ◆ User-programmable with RTOS support



Solid State Initiator

- ◆ Reliable and safe initiation of energetic devices
- ◆ Replaces legacy mechanical devices with solid state electronics
- ◆ Offers fail-safe activation of engines and pyrotechnic functions required by rockets and spacecraft

PRODUCTS AND SERVICES CONT...



Telemetry Systems

- ◆ 100+ Channel capability
- ◆ Power Control
- ◆ Remote Ground Support Equipment



Flight Termination Systems

- ◆ Thrust & Energetic Termination
- ◆ Electronic Safe & Arm Device
- ◆ RCC 319 compliant



Wireless Sensors

- ◆ High-precision data acquisition
- ◆ Self-Powered Wireless Nodes
- ◆ Custom sensing for structural monitoring, condition-based maintenance, and environmental sensing.



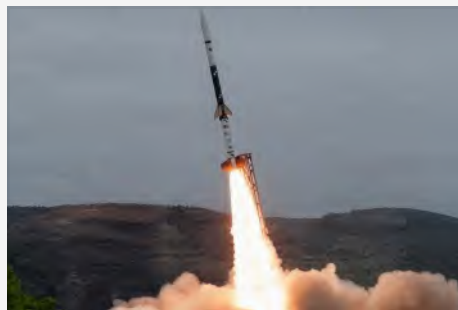
Engineer Support Services

- ◆ Vehicle Integration
- ◆ Launch Support activities including ground support equipment and data analysis



Test Support Services

- ◆ In-house vibration and thermal testing
- ◆ Prototype Design and Verification
- ◆ Qualification and Functional Testing



Missile and Rocket Electronics

- ◆ Extensive experience in telemetry systems, initiator and power systems for rockets
- ◆ Unique sensory solutions to support launch performance data products
- ◆ Solutions for high-precision data acquisition and signal translation



Cryogenic Hydrogen Transport and Storage Sensory Solutions

- ◆ Designed robust sensor interface solutions for monitoring pressure, temperature, and flow of Hydrogen in a cryogenic transport system
- ◆ Developed custom testing solutions for evaluating environmental sensory solutions in a pressurized Hydrogen fuel system.

BRING US YOUR HARDEST PROBLEM:

- ◆ Proven engineering expertise and a will to tackle your hardest problems.
- ◆ Continuously pursuing the latest technologies supporting solutions in harsh environments.

FOR MORE INFORMATION, PLEASE CONTACT:

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