

ZERO POINT FRONTIERS CORP.
Everything Starts at Zero



Zero Point Frontiers Corp. Capabilities Overview 2011

SPACE | ENERGY

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Corporate History and Overview

- Incorporated in 2008 - Woman-owned small business
- Located in Huntsville, supporting customers in Huntsville, Houston, and Cleveland
- Multiple employees with Active Top Secret/Secret Security clearances
- NAICS Codes: 541330, 541311, 541611, 541690

- Support civil, commercial, defense, and science programs from high-level initiatives to detailed subsystem analysis and integration
- Organized into Products & Services, Future Applications, Engineering and Business Operations

- Core Capabilities

Design Integration

Systems Engineering

Architecture Development

Systems, Mission & Campaign Analysis

Decision Support

Starship Engineering

Aerospace Vehicle Design

Risk & Reliability Assessment



ZPFC Staff Experience

Our staff has extensive experience with a broad set of DoD, NASA and Commercial programs, including:

NASA

- Altair/Lunar Lander interfaces, vehicle architecture and design
- Ares I and Ares V Integrated Vehicles
- Ares V Shroud Element (design, TRL assessment)
- Hubble Space Telescope Servicing Mission (reliability, risk)
- Integrated Vehicle Health Management
- International Space Station (flight control, payload operations, hardware integration)
- Mars Exploration Rover (FMECA, reliability)
- Mars Sample Return (mass properties, orbital sample capture, Probabilistic Risk Assessment)
- Orbital Space Plane (trades, design)
- Orion/Crew Exploration Vehicle (s/c integration, habitation, docking)
- ProSEDS (program mgmt, design)
- SORCE (Probabilistic Risk Assessment)
- Space Launch Initiative (trades, design)
- Space Launch System (SLS)
- TIMED (Probabilistic Risk Assessment integration)

Commercial

- Bigelow Sundancer Forward Propulsion (program mgmt, architecture, design, testing)
- XM Radio





ZPFC Staff Experience (Continued)

United States Air Force

- Advanced EHF Program (risk management)
- Advanced Medium Range Air to Air Missile (circuit card assembly operations, P31, wind tunnel testing)
- Atlas/Titan/Delta Launch Vehicles (reliability, risk mgmt)
- C/NOFS (vehicle design, configuration)
- Future Strike
- GPS III (vehicle and architecture design)
- Military Space Plane
- SBIRS Low/STSS (vehicle design, risk)
- Space Based Interceptor (vehicle and architecture design)
- TSAT (systems engineering, risk management)

DARPA

- Shaped Sonic Boom Demo / RASCAL

United States Navy

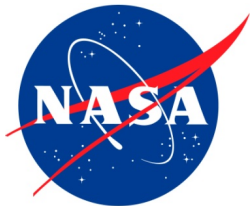
- Affordable Weapon System (systems architecture studies, systems effectiveness analysis)
- Killer Bee UAS (requirements development)
- Standard Missile 3 (flight test visualization, modeling and sim, trade studies)
- Standard Missile 6 (program mgmt, modeling and sim)

Missile Defense Agency

- Exoatmospheric Kill Vehicle (systems engineering)
- Multiple Kill Vehicle (MKV)
- Kinetic Energy Interceptor
- Standard Missile 3 Blk IIa
- Stunner Interceptor

United States Army

- Excalibur Precision Guided Artillery Projectile (wind tunnel testing)





Corporate Initiatives

- iPad application development
 - Legacy tools, experimental design, data collection
- Integrated Performance/Cost/Reliability/Schedule analysis process
- Engage Social Media Platforms
 - Podcasts available for download on iTunes Store
 - Communication through Facebook, Twitter, blogs
- StarshipZero
 - 25-year starship development program
 - 100-Year Space Technology Roadmap



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Zero Point Frontiers Corp. (ZPFC), an international commercial space company, is an engineering firm with expertise in design integration, starship engineering, system analysis, architecture development, and decision management. We provide payload and subsystem analysis and integration support of large-scale space flight systems composed of inter-dependent vehicles, systems and infrastructure. ZPFC provides company-developed services in the areas of space and energy, operating in a manner that minimizes costs and maximizes return on investment.



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Services and Expertise

Project Management

Risk Management

Program Planning

Mission & Campaign Analysis

Requirements Validation

Systems Engineering

Space Architecting

Decision Analysis

Aerospace Vehicle Design

Data Fusion & Analysis

Technology Synthesis

Conceptual Design

Failure Analysis

Organizational Development

Presentation Development

Business Consulting

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