

Core Competencies

Engineering Consulting Services - Broad Capabilities

Rapid simulation, design, development, optimization

- Systems development, Mechanical design and analysis, Detailed modeling and simulation, Control systems and software
- Domain expertise
 - Mechanical, electro-mechanical components and systems
 - Hydraulic, electro-hydraulic actuation and systems
 - Embedded and industrial controls and electronics
 - Product development and test systems

Overarching Technology Areas

- R&D, Energy, Actuation, Modeling, Controls, TRL Advancement

Differentiators

Relevant Expertise and Strong Portfolio of Analytical Tools

- Automotive, Defense, Aerospace, Energy.
- 50%+ of personnel have advanced degrees.
- Average experience of 15 years.
- 3-D CAD modeling, design, GD&T discipline complex FEA, CFD, magnetic modeling, thermal analysis, dynamic simulation, modeling, and programming for optimal control.

Program Management - Earned Value Management

- Program Planning
- Status Report Management
- Cost and Schedule Monitoring
- Performance Measurement

Relevant Past Performance

DLA: \$2.4M/4+years

Czero selected for DLA Aviation RETDI reverse engineering program for aircraft components, successfully executing on schedule and within budget.

DoD Powertrain: \$410K/12 months

Czero selected to create critical parametric modeling tools, provide expert guidance to shape next generation propulsion architectures, and implement new control systems tools enabling shorter development lead times.

DoD Prime: \$1.5M/18 months

Czero selected to model, design, build and test an 800 kW fully containerized, grid-ready, hybrid genset. Demonstrated fuel efficiency gains up to 40% over a typical load profile.

Company Snapshot

CAGE CODE: 5DU40

DUNS: 798836040 GSA

SCHEDULE: GS-10F-0081X

GOVERNMENT BUSINESS POC:

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Colorado

Socio-Economic Status

Small Business

NAICS Codes

541330-Engineering Services

541380-Testing Laboratories

541420-System Design & Integration

541715-Engineering R&D services

Advanced Expertise

871-1 Strategic planning for technology programs activities (ME/EE)

871-2 Concept development and requirements analysis (ME/EE)