

Okean Solutions [ō'-kē-on sə-lōō'-shənz] provides proven software and consulting solutions for real-time health assessment in hardware systems, enabling enhanced autonomous operations.

Capability Statement

What We Do

Okean Solutions is an agile small business that responds efficiently to evolving customer needs.

Our product line centers around a unique fault detection and isolation software, MONSID®. The model-based software is designed to work in applications requiring in-depth understanding of how the system actually operates. MONSID-based solutions can be used for system characterization during development, test support during hardware Integration and Test, and for real-time system health assessment during operations, in situ or remote.

MONSID solutions come with extensive documentation and user guides to support your engineering teams from day one. We have integrated MONSID in many open-source and custom frameworks for stand-alone and embedded implementations, and Okean engineers can provide the full spectrum of support from installation to maintenance.

Core Competencies

- Engineering Consulting
- Autonomous fault management systems development
- Embedded systems
- Software Integration and Test
- Modeling and simulation
- Satellite control systems
- Spacecraft avionics
- IT Development
- Business Apps
- Software architecture and development
- Web Information Technology and Business Intelligence
- Training, mentoring, decision support

Benefits

Since 2010, Okean Solutions has had executive staff with PhD and MS Engineering degrees and 70+ years of combined engineering experience to:

- Integrate health assessment seamlessly with planning and scheduling
- Increase your team's knowledge base
- Ensure efficient implementation of fault management solutions
- Reduce fault management system costs
- Implement effective health assessment for new or existing systems

Testimonials and Awards

- "Okean Solutions, Inc. worked diligently on all of the technical objectives. The overall outcome of the effort was highly successful."
~ NASA Contracts Officer
- "The SBC did an excellent job of communicating the status of the project and provided information on the work in a clear and open manner. Management of personnel was very efficient, exceptional and kept within the budget and original proposed deliverables and more, resulted in completion of this effort."
~ NASA Contracting Officer
- NASA Honor Group Achievement Award for ASTERIA during Extended Missions. [More info...](#)

Corporate Data

NAICS: 541330, 513210, 518210, 541511, 541512, 541513, 541519, 541715, 611420

Socio-economic Status: self-certified WOSB

Cage Code: 6JBM2 **SAM UEI:** FXZXK6CDEK25

Contact

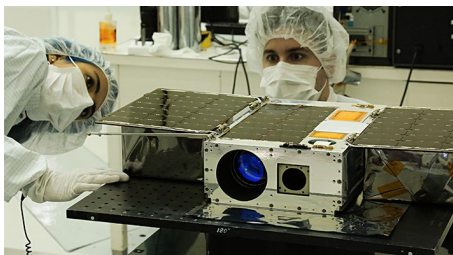
Ksenia Kolcio, President
contact@okean_solutions
310.704.6174

Clients



Past Performance Highlights

ASTERIA CubeSat



Successfully integrated MONSID fault management system and tested with ASTERIA CubeSat flight data.

Self Reliant Rover



Faults missed by legacy limit checking systems were detected by MONSID before they could cause serious damage to the Athena rover.

Responsive Spacecraft Fault Management



System health information can be streamed to operators to immediately alert them to any problems.

SBIR Phase I, II, III Projects Developed the MONSID fault detection and identification system, which provides real-time hardware health status, allowing a human or autonomous decision maker to take timely, appropriate action. MONSID can run standalone or integrated with other control and Digital Engineering tools and includes development and analysis functionality.

