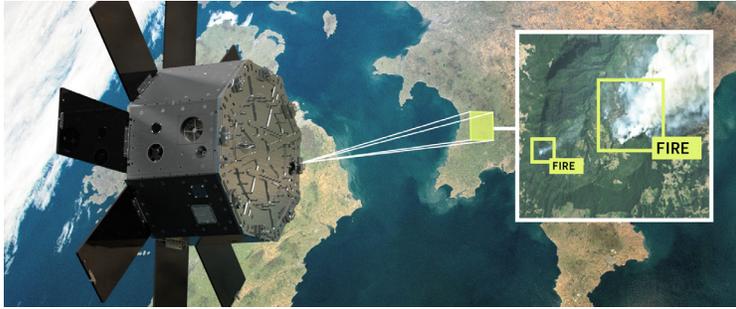


Artificial Intelligence & Machine Learning

Hardware and Software Solutions



At Sidus Space, we design, integrate, and implement custom AI/ML solutions that power intelligent, autonomous operations across space and terrestrial domains. Leveraging our proprietary FeatherEdge™ platform, we deliver near real-time insights to support mission-critical decisions.

From spacecraft docking and payload deployment to space debris tracking and autonomous navigation, our AI/ML systems are built for precision, speed, and adaptability.

Key Benefits

- » **Mission-Critical Insights** - Deliver actionable intelligence to support informed decision-making in high-stakes aerospace operations
- » **Autonomous Spacecraft Operations** - Enable spacecraft and satellite systems to operate independently with precision and efficiency
- » **Advanced Data Analytics** - Rapidly process and analyze large datasets to extract critical insights and drive mission success
- » **Real-Time Situational Awareness** - Provide near real-time data analysis to support swift, informed responses in dynamic environments
- » **Predictive Operations** - Leverage machine learning models to forecast trends, detect anomalies, and optimize mission outcomes
- » **Enhanced Space Domain Awareness** - Identify complex patterns in space data to support strategic planning and operational readiness

Capabilities

Artificial Intelligence and Machine Learning

Design, integrate and implement custom AI/ML solutions that leverage next generation AI to help streamline operations, improve efficiency and provide predictive analytics.

- » AI/ML Engineering and Design
- » AI/ML Implementation and Integration Services
- » AI Consulting Services
- » Custom AI/ML Software Algorithms and Models
- » Edge Computing
- » Intelligent Automation
- » Machine Learning
- » Predictive Analytics and Near Real-time Data Analysis

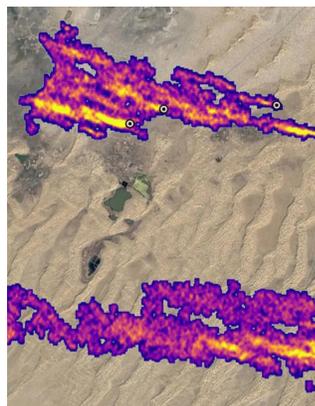
Computer Vision

Combine deep learning algorithms with traditional computer vision approaches with custom software solutions to extract meaningful insights from sensors.

- » Object Detection, Tracking and Avoidance
- » Image Classification and Segmentation
- » Autonomous Navigation and Monitoring
- » Spacecraft Docking and Payload Operations
- » Space Debris Surveillance

Applications

- » Autonomous Spacecraft and Satellite Operations
- » In-Orbit Servicing and Technology Demonstrations
- » Crisis and Disaster Response
- » Methane Emission Monitoring
- » Urban Planning and Wildfire Detection
- » Defense, Finance and Illegal Activity Monitoring
- » Agriculture and Environmental Intelligence



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