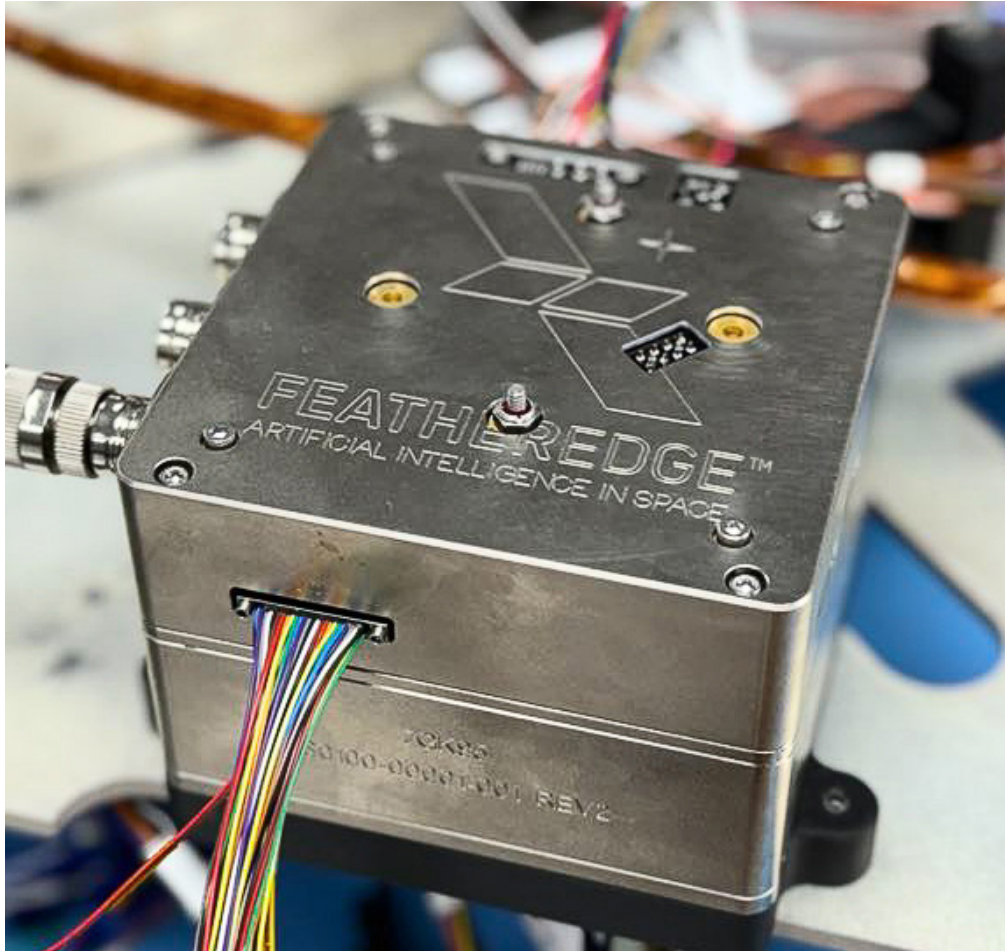# Artificial Intelligence & Machine Learning

Hardware and Software Solutions

Benefits

» Actionable Intelligence

» Autonomous Operations

» Enhanced Data Processing Capabilities

» Near Real Time Data Analysis

» Predictive Analytics

» Trend and Pattern Recognition

Capabilities

» AI Implementation Services

» AI/ML Engineering and Design

» Computer Vision

» Custom Artificial Intelligence/ Machine Learning Models

» Data Engineering

» Edge Computing

» Predictive Analytics and Near Real Time Data Analysis

» Software and Hardware Consulting

» Testing and Integration

Seamless Integration of AI and Technologies

At Sidus Space, we harness the power of FeatherEdge™, artificial intelligence (AI) and machine learning (ML) to deliver multifaceted hardware and software solutions that meet any mission need or objective.

From identifying early signs of natural disasters to combating illegal activities, Sidus Space combines AI/ML hardware and software with remote sensor technologies to capture mission-critical data in near real time. Through rapid data analysis and pattern recognition, our AI/ML solutions convert raw information into valuable insights, patterns, and trends for effective decision-making and actionable intelligence.

Tailored Integration

Our team is dedicated to deploying tailored AI solutions that deliver an array of solutions from commercial offerings to custom mission-specific applications. Our AI/ML hardware and software solutions significantly improve administrative task automation, engineering design optimization, and real-time monitoring and analysis. Our AI solutions paired with FeatherEdge™ improve spacecraft and payload precision, decision-making efficiency, and operational safety.
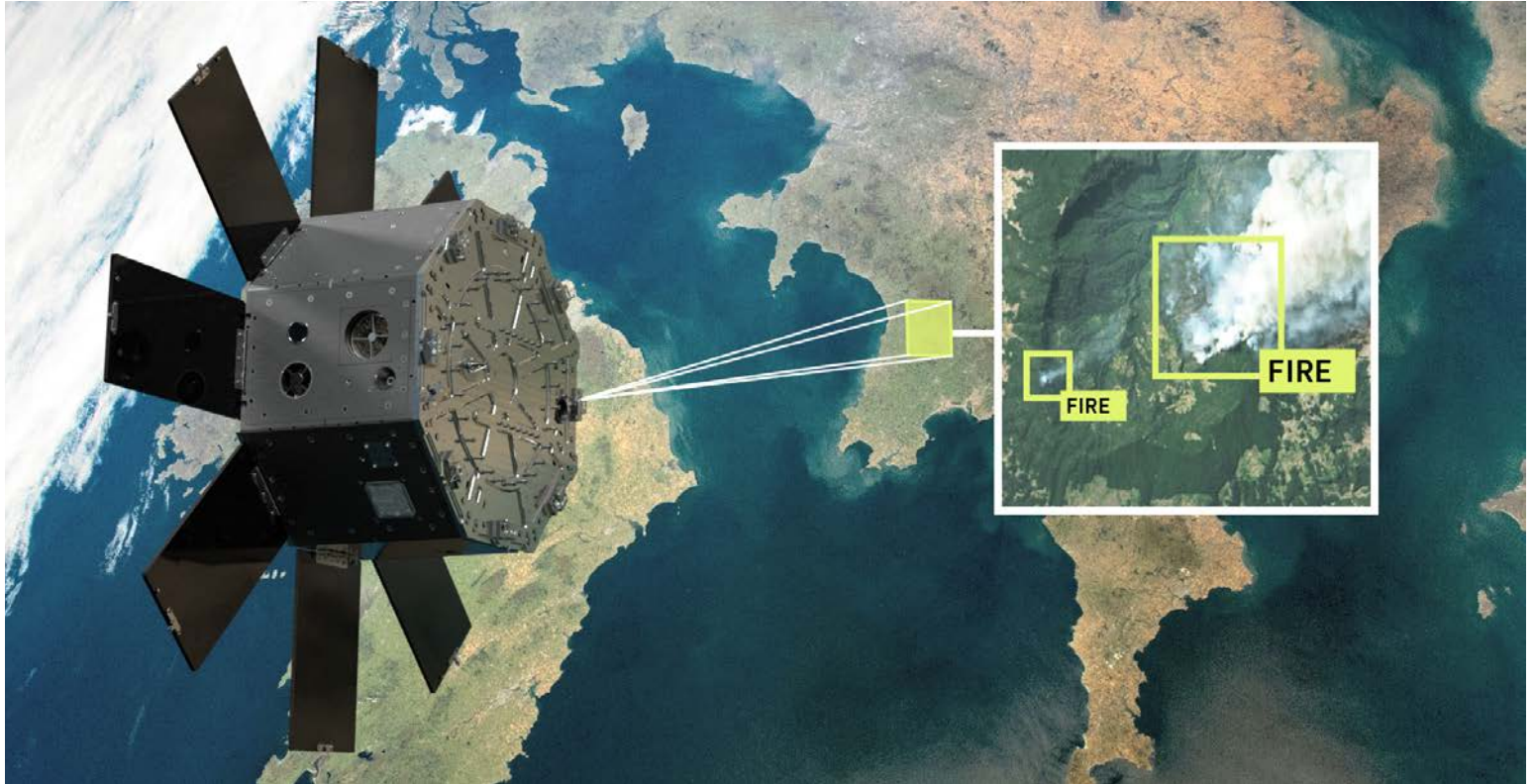
Applications

» Agriculture

» Autonomous Situational Awareness and Navigation

» Autonomous Spacecraft and Satellite Operations

» Crisis and Disaster Management

» Defense

» Financial Services

» Illegal Activity Monitoring

» Methane (CH_4) Emission

» Payload and Technology Demonstrations

» Object Identification and Tracking
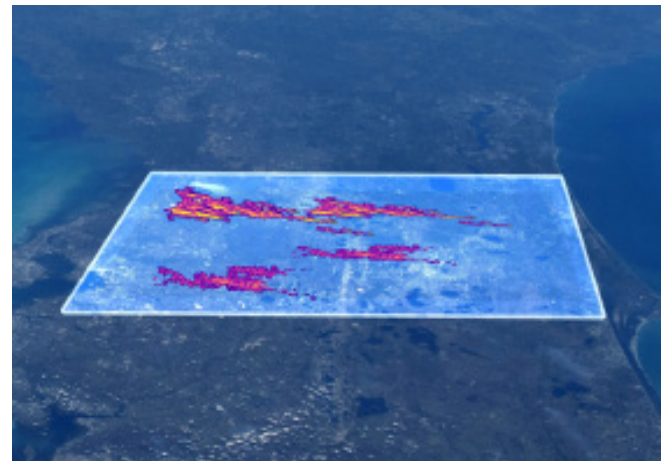
» Urban Planning

» Wildfire Monitoring

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
- » Intelligent Automation
- » Machine Learning

Computer Vision

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

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

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