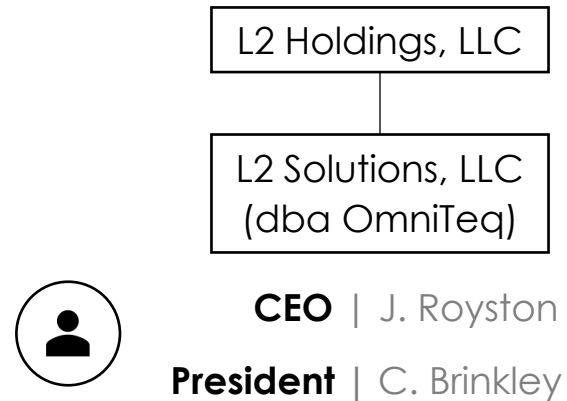


# Predictive Insights

— for a Better Tomorrow

Space Systems / Space Derived R&D  
Capabilities





## INTELLIGENT DATA SOLUTIONS

- AThENA Platform
- Edge-Processing
- Advanced AI/ML
- Technical Services
- Real-Time Streaming
- DevSecOps
- Digital Twin (Visualization)
- Cognitive Assistant

## SPACE DERIVED R&D

- Space Derived Data Technologies
- Compressively Enhanced SAR (CE-SAR)
- Intensity Correlation Imaging
- Noise Radar

## SPACE SYSTEMS

- Spacecraft Engineering Design Team
- Launch & Deployment Systems
- Space Hardware Development
- Mission Integration & Operations Team

# Space Systems Overview

# Space Systems Highlights



- Proven spacecraft engineering design and development team in building launch and deployment systems for rideshare missions, human-rated vehicles and habitats
- Designed, developed and deployed two launch systems that service LEO and Sun-synch orbits with 100% mission success
  - 29 Spacecraft flown since 2019 / 135U
- Developed multiple launch vehicle agnostic deployment and sep system products
- Seasoned Mission Integration & Operations Team
  - Providing Mission Integration Services for 5 SpaceX Transporter Missions between June 2022 – January 2023
  - Supporting first ABL mission in Kodiak with OmniTeq Equalizer Deployers and Proprietary Spacecraft Developed by the R&D Team
- Florida Integration Facility with Clean Room conveniently located near SpaceX Payload Processing Facility
- Multiple commercial and DoD customers with ability to handle classified payloads
- Notable Contract Wins: NASA VADR (5 year / \$300M, IDIQ), GSA (no ceiling), NASA JSC IDIQ, AFRL CRADA and multiple mission contract wins
- Strong Intellectual Property portfolio



1<sup>st</sup> Mission Patch  
2019

## Space Systems Core Offering

---

Two Active Launch Systems Servicing Desired Orbits in LEO

Specialized Mission Integration & Operations Team

Launch Vehicle Agnostic Deployment & Separation System Hardware Solutions / Services

Spacecraft Engineering Design & Manufacturing

Payload Development & Integration, including Software

Florida Payload Integration Facility with 100K Clean Room

Proven Pedigree and trusted by USG with Personnel Clearances (No Foreign Ownership)

### ENABLERS

## Multiple Contract Vehicles

GSA | NASA VADR | NASA Services | AFRL – CRADA | DoD-Satellite Test Program

# Our Launch & Deployment Capabilities



## NASA CRS Missions

### SLINGSHOT

- Up to 54U per Mission (1-12U Configs)
- Tab/Rail Agnostic
- Via Northrop Grumman Cygnus CRS Program
- Above station altitude 450km-500km
- Regular launch cadence
- Most reliable transportation system in the market today

## + Rideshare Program

### OCTO-EQ

- Up to 96U
- Tab/rail Agnostic
- Regular launch cadence with SpaceX Rideshare & Other LV's
- 1U - 16U Configurations

## Rideshare Program

### OCTOBUS

- Orbital Transfer >2km/sec
- 300 kg payload
- Electric/Cold Gas Propulsion

## Deployment Capabilities

Equalizer CubeSat Deployer

Rifle Sep System 15" / 24"

\*Flex Deployer

\*Space Trash System

*\*New Product Launch*

Customers

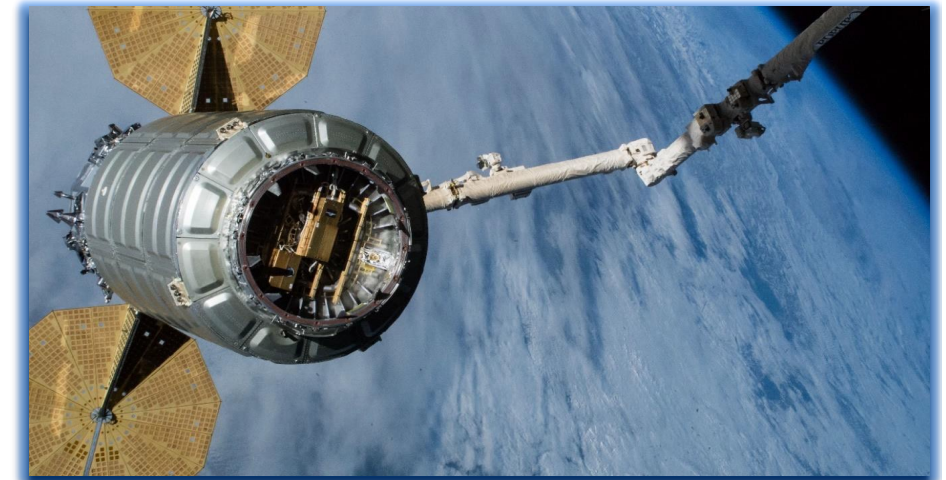


# Slingshot Overview

## Slingshot

### 100% Mission Success Rate

- Six (6) Missions Flown to Date
- Initial Satellite Transportation to ISS via any Visiting Vehicles up to 4 Times per Year
- Uses ISS Cargo Launches – *the cargo is the primary payload*
- Distributed Cargo Transportation – *lower costs*
- Final Satellite Transportation to Deployment Orbit Uses Cygnus – *higher orbits up to 500 km/51.6° inclination*
- Slingshot above ISS deploy (450+km) has been proven
- Slingshot flies as cargo to the ISS; soft, favorable ride with a human in the loop if needed prior to install and deploy
- Cygnus has a demonstrated fuel consumption profile ensuring above station deploy
- Hosted Payload capability to include FCC licensing coverage by Cygnus
- 1U to 12U Rail / Tab CubeSat Formats (ISIPOD XL)





# OCTO-EQ Overview

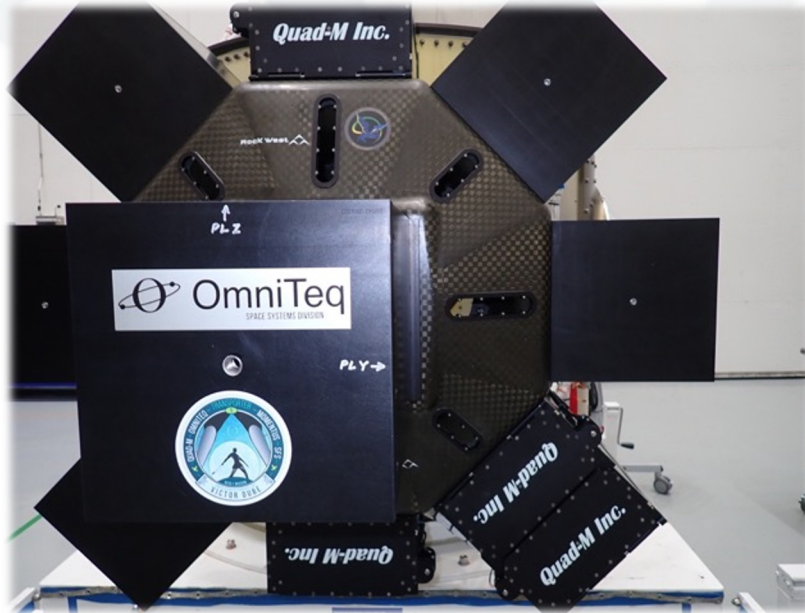


## Heritage Technology

- Utilizes SpaceX 24" port
- Accommodates up to 96U
- SpaceX Rideshare Missions to Sun Synchronous Orbit (SSO)

## 100% Mission Success on the 1st flight

- OCTO-EQ debuted on SpaceX T5 mission
- Utilized our IP for the Octobucket Technology



## Formats Supported

- 1U to 16 U Tab and Rail Format Deployers
- Up to 7 x 12U + 2 x 6U Deployers (96U per 24-inch location)
- Supports SmallSat and CubeSats
- Custom Deployer Builds Capability

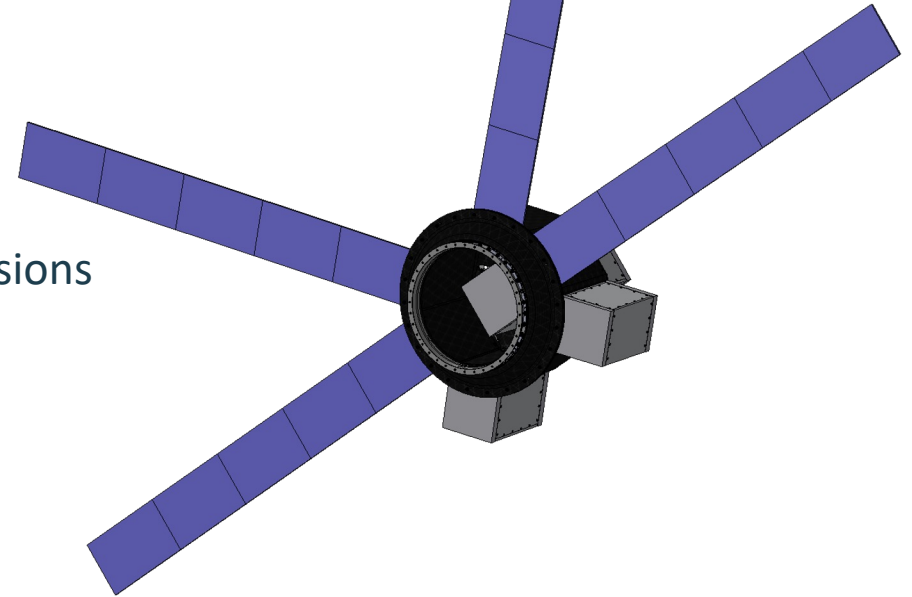
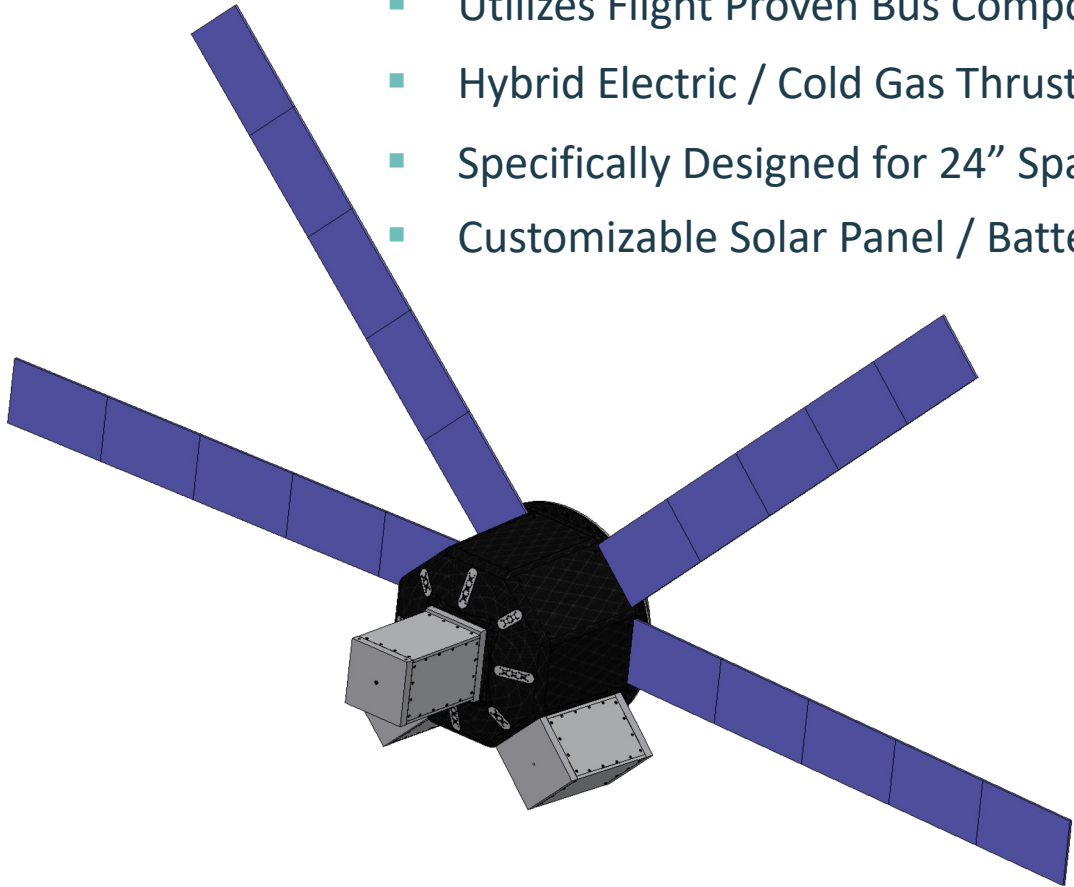


# OctoBus Overview



## Heritage Technology

- Utilizes Flight Proven Bus Components
- Hybrid Electric / Cold Gas Thruster Option
- Specifically Designed for 24" SpaceX Rideshare Missions
- Customizable Solar Panel / Battery System



## Performance

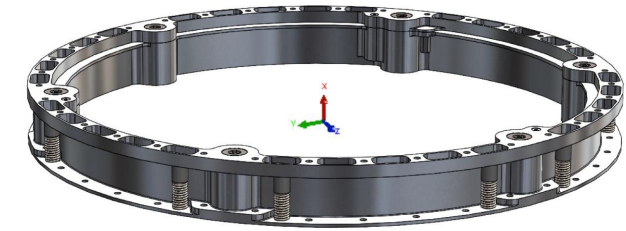
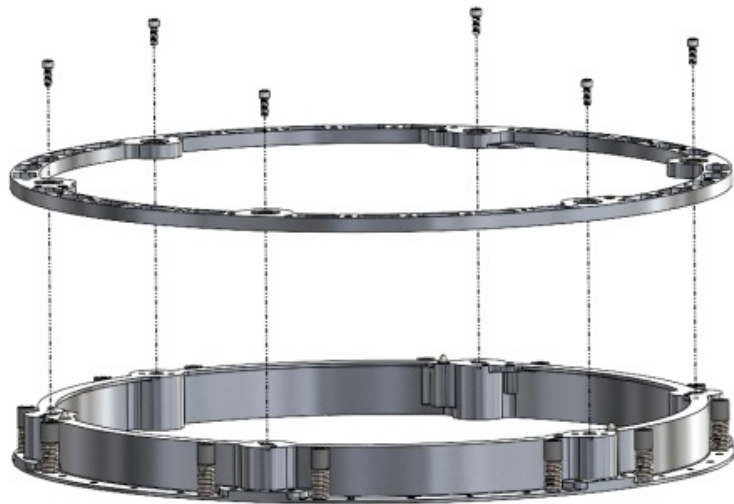
- 300 kg Payload
- >2km/sec Delta V
- Scalable Solar Array to 1.5 kW
- Ultralightweight Composite Structure

*OmniTeq Proprietary – Competition Sensitive Information*

# Rifle Overview

## Heritage Technology

- Utilizes Flight Proven HDRMs
- Accommodates ESPA Class Satellites
- Specifically Designed for SpaceX Rideshare Missions
- Customizable Springs/Connectors/Breakwire Switches



## Formats Supported

- Range of separation nut combinations (3, 6, 9 or 12) to accommodate a variety of small satellite sizes
- Available bolt Circle diameters: 11.732", 15", 24".

*OmniTeq Proprietary – Competition Sensitive Information*

Keep in Touch!

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