

## Core Competencies

**Kall Morris Inc (KMI)** is a space solutions company dedicated to rendezvousing, retrieving, and relocating objects in orbit to safeguard critical space assets and services. Our orbital debris research and solution development is focused on Active Debris Removal (ADR), leveraging proprietary software, exclusive hardware, and essential partnerships.

### Team

- **Agile** with small, interconnected teams
- **Proficient** across industries & disciplines
- **Resource-efficient** pursuit of objectives
- **Purpose-motivated** leadership team
- **Adept application** of novel technology
- **Data-driven** defense of orbital resources

### Products

- **Laelaps:** Optimized rideshare, ESPA-class spacecraft using COTS systems for responsive and efficient ADR missions.
- **TumbleEye:** Automated Target Recognition algorithm that detects multi-axis rotation of uncontrolled objects.
- **REACCH:** Multi-armed articulated soft robotics device that universally and reversibly docks, to offer solutions for legacy, accidental, adversarial, or otherwise unprepared objects.
- **Asteria:** Adhesive technology that allows the coupling of payloads to legacy and modern RSO; enhancing ISAM capabilities, improving tracking, and facilitating deorbit needs.

## Differentiators

Our expert team focuses on developing tailor-fit solutions with our technical and creative capabilities. This extends to our network of multi-industry professionals, forming KMI as a capable partner on advanced orbital projects. From new tech to established programs, engage KMI to create a custom solution with you.

### Services

- On-Orbit Servicing (OOS)
- Resident Space Object (RSO) Remediation
- In-space Servicing, Assembly, and Manufacturing (ISAM)
- Space Access Mobility and Logistics (SAML)
- Optimization & Analysis



### Technology

**Legacy-compatible** technology, capable for ADR on unprepared and uncontrolled objects

**Repeatable** for thousands of attachments

**Efficient** for time and resources in orbit

**Deployable** as secondary payload on rideshare launch systems, using 15" ESPA

## Past Performance

**KMI** has developed proof-of-concepts, progressed them to prototype, and advanced the technology through testing, with an ISS demonstration planned in 2024. With this as well as completed government and commercial contracts, KMI continues working with partners towards **Keeping Space Clear For All**.

### Previous projects include:

- USSF/AFRL, USAF, NASA, MIT, USC, Stanford, Nanoracks, CisLunar Industries, & Privateer Space
- Expert involvement at invitational, international, and industry-representing conferences including NASA, ISS, Astrobeer WG, IAC, NSS, GSSF, NASS, & more

### Team experience and education:

- **15+ team members** aka “**Space Rangers**” from multiple disciplines, NASA centers, and military services
- **150+ years** in professional industries including aerospace and manufacturing, with **26+ degrees** from PhD in Astronomy/Astrophysics, to MS's in Data Science, & more

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