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Kall Morris Inc Announces Award of United States Air Force Contract to Study Orbital Debris Removal

Marquette, MI - Kall Morris Inc (KMI), the orbital debris research and solution development company from Marquette, Michigan, is excited to announce the award of a United States Air Force (USAF) contract to investigate methods to enable Rendezvous Proximity Operations and Docking with uncontrolled and unprepared objects in orbit for Active Debris Removal using our TumbleEye technology. This USAF project will move KMI closer to protecting humanity's critical in-space services from orbital debris.

The USAF and Department of Defense face a growing need for Active Debris Removal and the capture of targeted resident space objects. KMI is working to enable Rendezvous Proximity Operations and Docking for unrecognized objects through TumbleEye analysis. The TumbleEye technology is an autonomous machine vision system invented by the contract's primary investigator Adam Kall, KMI Co-Founder & Director of Science. This technology will improve reconnaissance operations by deriving rotation and location information from unknown objects, and improve space logistics by lowering the pre-launch requirements for objects to be dockable.

"I'm excited that we get to apply AI (artificial intelligence) towards such an interesting problem. By predicting the behavior and telemetry of in-space objects, we will enable existing docking procedures for targets like the ISS and spacecraft to be used for docking with debris," Adam Kall explains. "Now lessons can be learned from both use cases, used to improve the algorithm, and through TumbleEye those improvements can still be used even when the docking target is something like a derelict rocket body."

Fellow co-founder Troy M. Morris, Director of Operations, added, "the continued support for KMI from government agencies shows their support and interest as both potential customers and partners in innovation. This USAF effort will expand the capabilities of KMI to solve unexpected issues in other domains, and answer the recognized unknowns in the space domain. We look forward to continuing to work with the government in numerous ways toward keeping space clear for all."

Kall Morris Inc (KMI) is an orbital debris research and solution development company focused on Active Debris Removal (ADR) for keeping space clear for all. With proprietary software, exclusive hardware, and critical partnerships, KMI aims for a commercially viable system for ADR of legacy assets: significant debris objects that are often unprepared, uncontrolled, and potentially unrecognizable.

The views expressed are those of the author and do not necessarily reflect the official policy or position of the Department of the Air Force, the Department of Defense, or the U.S. government.

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About Kall Morris Incorporated

Kall Morris Inc (KMI) is a space solutions company that removes and repurposes unprepared objects in orbit to protect critical space assets and continue building the future. The co-founders combine civilian space agency AI/ML, defense aerospace rapid prototyping, and commercial business development for a target-agnostic solution to an exponential problem. The KMI orbital debris research and solution development focuses on Active Debris Removal of legacy assets: significant debris objects that are unprepared for docking, often uncontrolled, and potentially unrecognizable. Headquartered in Marquette, Michigan, on the Upper Peninsula shores of Lake Superior, KMI is leveraging in-house proprietary software, exclusive hardware, and essential partnerships worldwide, all aligned toward keeping space clear for all. Learn more at www.kallmorris.com.

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