



1
00:00:00,000 --> 00:00:01,785

■Music■

2
00:00:01,785 --> 00:00:04,554

NASA is getting one step closer to having a relative navigation system

3
00:00:04,554 --> 00:00:10,994

through a test module called Raven, which is small in size but large in impact.

4
00:00:10,994 --> 00:00:14,964

Launching to the International Space Station,

5
00:00:14,964 --> 00:00:17,267

Raven will test foundational technologies including sensors, machine vision

6
00:00:17,267 --> 00:00:19,602

algorithms, and processing, to perfect autonomous rendezvous in space

7
00:00:19,602 --> 00:00:24,090

(no humans involved).

8
00:00:24,090 --> 00:00:31,848

NASA does not currently possess these technologies, but critically needs them.

9
00:00:31,848 --> 00:00:37,070

Over 99% of all satellites in space are not designed for rendezvous or servicing.

10
00:00:37,070 --> 00:00:40,807

Time delays prevent humans from sending successful rendezvous commands from

11
00:00:40,807 --> 00:00:42,876

Earth to space.

12

00:00:42,876 --> 00:00:45,995

Enter Raven.

13

00:00:45,995 --> 00:00:50,300

Over its two-year lifespan, Raven will
fine tune groundbreaking technologies

14

00:00:50,300 --> 00:00:53,203

that will act as the eyes and brain for
missions for decades to come,