



1
00:00:00,000 --> 00:00:03,060

Narrator: NASA Ames Research Center recently

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00:00:03,080 --> 00:00:05,770

participated in two important outreach events held

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00:00:05,790 --> 00:00:08,820

in the San Francisco Bay Area: Maker Faire and a

4
00:00:08,840 --> 00:00:11,070

gathering of hardware and software industry

5
00:00:11,090 --> 00:00:14,220

professionals called the Solid Conference.

6
00:00:14,240 --> 00:00:16,300

The conference became the opportunity for the

7
00:00:16,320 --> 00:00:18,790

Intelligent Robotics Group from NASA Ames to

8
00:00:18,810 --> 00:00:21,090

publicly unveil their latest version of the

9
00:00:21,110 --> 00:00:22,760

free-flying robot used on the

10
00:00:22,780 --> 00:00:25,360

International Space Station.

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00:00:25,380 --> 00:00:26,780

Terry Fong, Director: Here you see small businesses,

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00:00:26,800 --> 00:00:29,620

large businesses, you see hobbyists, you see makers,

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00:00:29,640 --> 00:00:32,680

you see engineers. You see, you know, creative people.

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00:00:32,700 --> 00:00:34,600

A lot of them come by and are just really excited

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00:00:34,620 --> 00:00:37,020

to see us taking something which is off-the-shelf,

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00:00:37,040 --> 00:00:39,720

a Tango smartphone, marrying it with a space robot

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00:00:39,740 --> 00:00:41,690

and putting it on the Space Station.

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00:00:41,710 --> 00:00:43,400

Narrator: The volleyball-sized robot called

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00:00:43,420 --> 00:00:46,590

Synchronized Position, Hold, Engage, Reorient,

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00:00:46,610 --> 00:00:49,450

Experimental Satellite or SPHERES uses a

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00:00:49,470 --> 00:00:51,800

Google Android-based smartphone called

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00:00:51,820 --> 00:00:55,810

Project Tango as its controller or "brain".

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00:00:55,830 --> 00:00:58,830

It features an innovative 3D sensor and software

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00:00:58,850 --> 00:01:01,640

that has been modified by the NASA team for use in

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00:01:01,660 --> 00:01:04,240

a micro-gravity space environment.

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00:01:04,260 --> 00:01:05,410

Terry Fong: I've seen all kinds of really

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00:01:05,430 --> 00:01:07,810

interesting things from sensors to processors to

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00:01:07,830 --> 00:01:10,170

software to services.

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00:01:10,190 --> 00:01:12,120

And for me, it's a really great opportunity to

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00:01:12,140 --> 00:01:14,230

reach out, tell people what NASA's doing and

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00:01:14,250 --> 00:01:16,400

try to pull in some of these new creative ideas

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00:01:16,420 --> 00:01:19,360

into the work that we're doing in space.

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00:01:19,380 --> 00:01:21,690

Narrator: NASA also participated at the Bay Area

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00:01:21,710 --> 00:01:24,760

Maker Faire, a gathering of more than 120,000

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00:01:24,780 --> 00:01:28,160

innovators, enthusiasts, crafters, hobbyists

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00:01:28,180 --> 00:01:30,030

and tinkerers to share what they have

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00:01:30,050 --> 00:01:32,090

invented and made.

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00:01:32,110 --> 00:01:34,320

The NASA booth was a showcase of the Agency's

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00:01:34,340 --> 00:01:37,010
missions, highlighting designs for current small

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00:01:37,030 --> 00:01:39,870
satellites in orbit and projects that were part of

41
00:01:39,890 --> 00:01:43,240
the NASA Grand Challenge robotics competition.

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00:01:43,260 --> 00:01:44,960
Jason Kessler: Being at Maker Faire it's likely

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00:01:44,980 --> 00:01:48,150
that the first people to step foot on Mars are

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00:01:48,170 --> 00:01:50,770
walking around the fair grounds right now.

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00:01:50,790 --> 00:01:54,950
These are the inventors, these are the innovators

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00:01:54,970 --> 00:01:58,290
and this is why NASA needs to be at Maker Faire.

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00:01:58,310 --> 00:02:00,420
Narrator: The festival is a celebration of

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00:02:00,440 --> 00:02:03,310
invention, creativity and resourcefulness where

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00:02:03,330 --> 00:02:05,490
"makers" show off their inventions and

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00:02:05,510 --> 00:02:08,560
share knowledge.

