INTERNATIONAL SPACE STATION: BENEFITS FOR HUMANITY

ENGAGING THE NEXT GENERATION

1
00:00:28,790 --> 00:00:27,029
in order to support international space

2
00:00:31,189 --> 00:00:28,800
station we're constantly having to build

3
00:00:33,030 --> 00:00:31,199
new hardware to send to space but as

4
00:00:34,229 --> 00:00:33,040
well we need to make training hardware

5
00:00:36,630 --> 00:00:34,239
on the ground

6
00:00:38,389 --> 00:00:36,640
so we ask ourselves what if we got high

7
00:00:39,670 --> 00:00:38,399
school students to build this training

8
00:00:41,590 --> 00:00:39,680
hardware

9
00:00:43,030 --> 00:00:41,600
and get them out of the textbook give

10
00:00:44,869 --> 00:00:43,040
them some hands-on

11
00:00:46,549 --> 00:00:44,879
lessons to work with

12
00:00:48,790 --> 00:00:46,559
and by doing that we'll be inspiring the

13
00:00:50,389 --> 00:00:48,800

next generation of students

14
00:00:52,869 --> 00:00:50,399
so that's when we decided to create

15
00:00:55,110 --> 00:00:52,879
hunch punch goes to the local high

16
00:00:57,029 --> 00:00:55,120
schools partners with the high schools

17
00:00:59,349 --> 00:00:57,039
and gives these students opportunities

18
00:01:01,189 --> 00:00:59,359
to design build hardware that'll fly in

19
00:01:03,670 --> 00:01:01,199
space will be used for training hardware

20
00:01:06,550 --> 00:01:03,680
on the ground students did the design

21
00:01:08,870 --> 00:01:06,560
and engineering the cad drafting the 3d

22
00:01:11,030 --> 00:01:08,880
print prototyping the machining the

23
00:01:12,710 --> 00:01:11,040
procurement of the hardware all that's

24
00:01:14,710 --> 00:01:12,720
done by high school students to get this

25
00:01:16,149 --> 00:01:14,720
article the flying space

26
00:01:17,990 --> 00:01:16,159
from the quality perspective the

27
00:01:20,390 --> 00:01:18,000
students have exceeded all of our

28
00:01:22,149 --> 00:01:20,400
expectations the hardware we're getting

29
00:01:23,510 --> 00:01:22,159
in is is top notch

30
00:01:25,429 --> 00:01:23,520
this program

31
00:01:27,749 --> 00:01:25,439
actually helps them focus into the

32
00:01:29,910 --> 00:01:27,759
engineering of the stem fields i've been

33
00:01:32,870 --> 00:01:29,920
teaching for 23 years i've never seen

34
00:01:34,789 --> 00:01:32,880
anything that even remotely compares to

35
00:01:37,429 --> 00:01:34,799
having the the type of impact on

36
00:01:38,469 --> 00:01:37,439
students that hunch has had absolutely

37
00:01:39,510 --> 00:01:38,479
phenomenal

38
00:01:41,429 --> 00:01:39,520

working with the horns program we

39
00:01:43,910 --> 00:01:41,439
fabricated training hardware for the iss

40
00:01:46,469 --> 00:01:43,920
i created and designed interactive

41
00:01:47,910 --> 00:01:46,479
simulations we're making a mexican faela

42
00:01:49,429 --> 00:01:47,920
and hopefully gets chosen to go to the

43
00:01:51,270 --> 00:01:49,439
international space station from the

44
00:01:53,510 --> 00:01:51,280
hunch program i've learned how to use

45
00:01:54,950 --> 00:01:53,520
autocad we're learning a lot of teamwork

46
00:01:56,789 --> 00:01:54,960
i've definitely gained some

47
00:01:58,550 --> 00:01:56,799
communication skills we're learning more

48
00:02:01,109 --> 00:01:58,560
about food science technology but

49
00:02:03,190 --> 00:02:01,119
everything basically doing this it gives

50
00:02:06,069 --> 00:02:03,200
them a confidence that i don't think

51
00:02:07,190 --> 00:02:06,079
they would have had to that level before

52
00:02:09,589 --> 00:02:07,200
this

53
00:02:11,510 --> 00:02:09,599
maybe maybe i would actually be able to

54
00:02:13,110 --> 00:02:11,520
be an engineer it was never something

55
00:02:15,190 --> 00:02:13,120
that i

56
00:02:17,190 --> 00:02:15,200
thought that much about

57
00:02:19,350 --> 00:02:17,200
then i was working on this stuff

58
00:02:21,110 --> 00:02:19,360
that went to space

59
00:02:24,470 --> 00:02:21,120
and i couldn't think of anything more

60
00:02:25,990 --> 00:02:24,480
exciting and i still can't

61
00:02:27,830 --> 00:02:26,000
it's a pretty cool thing to be able to

62
00:02:30,869 --> 00:02:27,840
tell other people or family when you go

63
00:02:32,630 --> 00:02:30,879

visit that i work with nasa programs

64
00:02:34,790 --> 00:02:32,640
i mean i told everybody like literally

65
00:02:37,270 --> 00:02:34,800
everybody we have an opportunity here

66
00:02:39,990 --> 00:02:37,280
for for them that is

67
00:02:43,430 --> 00:02:40,000
unbelievable it's kind of like getting a

68
00:02:44,790 --> 00:02:43,440
masters at age 16. they truly have moved

69
00:02:46,710 --> 00:02:44,800
on to a level they wouldn't have

70
00:02:48,390 --> 00:02:46,720
approached or wouldn't reach i believe

71
00:02:50,229 --> 00:02:48,400
without this program and without the

72
00:02:52,309 --> 00:02:50,239
international space station before the

73
00:02:54,550 --> 00:02:52,319
hunch program i really was just a c

74
00:02:56,869 --> 00:02:54,560
student with no direction in my life and

75
00:02:58,390 --> 00:02:56,879
since then i've been on the dean's list

76
00:03:00,149 --> 00:02:58,400
for the past four years and will be

77
00:03:02,149 --> 00:03:00,159
transferring to pursue mechanical

78
00:03:04,790 --> 00:03:02,159
engineering it really helped me find my

79
00:03:06,790 --> 00:03:04,800
passion for aerospace hunch program gave

80
00:03:08,309 --> 00:03:06,800
me my career the impact on their lives

81
00:03:10,309 --> 00:03:08,319
has been amazing

82
00:03:12,309 --> 00:03:10,319
they're more successful they're more

83
00:03:14,229 --> 00:03:12,319
driven they're more determined

84
00:03:16,229 --> 00:03:14,239
they know they can't achieve and that's

85
00:03:18,070 --> 00:03:16,239
all i think through this program through