



1  
00:00:10,870 --> 00:00:09,190  
the northrop grumman lunar lander

2  
00:00:12,709 --> 00:00:10,880  
challenge is a two million dollar prize

3  
00:00:15,430 --> 00:00:12,719  
program offered by nasa's centennial

4  
00:00:16,870 --> 00:00:15,440  
challenges to win the prize privately

5  
00:00:18,550 --> 00:00:16,880  
funded teams of rocketeers and

6  
00:00:20,710 --> 00:00:18,560  
entrepreneurs have to build a vertical

7  
00:00:22,630 --> 00:00:20,720  
takeoff vertical landing rocket capable

8  
00:00:24,870 --> 00:00:22,640  
of performing multiple flights in a very

9  
00:00:27,269 --> 00:00:24,880  
short period of time and following a

10  
00:00:29,589 --> 00:00:27,279  
specific mission trajectory

11  
00:00:31,349 --> 00:00:29,599  
in level one of the prize program teams

12  
00:00:33,510 --> 00:00:31,359  
have to do two flights in two and a half

13  
00:00:35,430 --> 00:00:33,520

hours and each flight has to have a

14

00:00:38,389 --> 00:00:35,440

duration of 90 seconds and a flight

15

00:00:40,229 --> 00:00:38,399

profile that rises up 50 meters over 100

16

00:00:41,990 --> 00:00:40,239

meters and back down the 50 meters to

17

00:00:44,229 --> 00:00:42,000

land on a second flat pad and then

18

00:00:46,229 --> 00:00:44,239

repeats that flight in reverse to win

19

00:00:47,830 --> 00:00:46,239

the more complicated level two teams

20

00:00:49,750 --> 00:00:47,840

again have to do those two flights in

21

00:00:51,750 --> 00:00:49,760

two and a half hours but this time have

22

00:00:53,270 --> 00:00:51,760

to remain in the air for twice as long

23

00:00:55,110 --> 00:00:53,280

and instead of landing on two flat

24

00:00:56,470 --> 00:00:55,120

surfaces have to land on a simulated

25

00:00:57,750 --> 00:00:56,480

lunar surface

26

00:00:59,029 --> 00:00:57,760

the northrop grumman lunar lander

27

00:01:01,590 --> 00:00:59,039

challenge has been running for three

28

00:01:02,950 --> 00:01:01,600

years now in 2008 we had more teams

29

00:01:04,390 --> 00:01:02,960

registered to compete in the north of

30

00:01:06,469 --> 00:01:04,400

grumman lunar lander challenge than ever

31

00:01:08,149 --> 00:01:06,479

before nine different teams from all

32

00:01:09,990 --> 00:01:08,159

around the united states entered their

33

00:01:12,149 --> 00:01:10,000

new designs and their new vehicles all

34

00:01:13,750 --> 00:01:12,159

trying to accomplish the same goal this

35

00:01:16,710 --> 00:01:13,760

year two teams made it to our final

36

00:01:18,469 --> 00:01:16,720

event armadillo aerospace and true zero

37

00:01:19,910 --> 00:01:18,479

although we only awarded one prize this

38

00:01:21,429 --> 00:01:19,920

year it's important to recognize that

39

00:01:23,030 --> 00:01:21,439

all of our teams have accomplished truly

40

00:01:48,550 --> 00:01:23,040

impressive things let's take a quick