



1
00:00:05,190 --> 00:00:02,470
the annual first robotics competition is

2
00:00:07,430 --> 00:00:05,200
in full swing with some 60 000 high

3
00:00:09,669 --> 00:00:07,440
school students competing in regional

4
00:00:12,390 --> 00:00:09,679
challenges using robots they built in

5
00:00:14,709 --> 00:00:12,400
six weeks from a common kit of parts

6
00:00:17,109 --> 00:00:14,719
nasa science chief and former astronaut

7
00:00:19,269 --> 00:00:17,119
john grunsfeld was at the d.c convention

8
00:00:21,349 --> 00:00:19,279
center to help kick off washington's

9
00:00:22,630 --> 00:00:21,359
regional competition when i was growing

10
00:00:24,470 --> 00:00:22,640
up there weren't programs like this

11
00:00:26,310 --> 00:00:24,480
where i could get with like-minded kids

12
00:00:28,630 --> 00:00:26,320
and we could work on a project together

13
00:00:30,630 --> 00:00:28,640

to build something great for me it was

14

00:00:32,709 --> 00:00:30,640

more a question of surviving the process

15

00:00:34,389 --> 00:00:32,719

and still staying interested in science

16

00:00:36,870 --> 00:00:34,399

and it's so crucial today that we have

17

00:00:38,950 --> 00:00:36,880

programs like this so that kids can grow

18

00:00:41,750 --> 00:00:38,960

together to grow stronger and to help

19

00:00:44,150 --> 00:00:41,760

our nation nasa is the largest sponsor

20

00:00:46,630 --> 00:00:44,160

of the national first program supporting

21

00:00:49,990 --> 00:00:46,640

five regional competitions and more than

22

00:00:52,790 --> 00:00:50,000

280 teams the dc region includes high

23

00:00:55,430 --> 00:00:52,800

school teams from virginia maryland

24

00:00:58,389 --> 00:00:55,440

washington and several other states

25

00:01:00,069 --> 00:00:58,399

first stands for four inspiration

26

00:01:01,270 --> 00:01:00,079

and recognition of science and

27

00:01:03,110 --> 00:01:01,280

technology

28

00:01:07,270 --> 00:01:03,120

here's a look at some of the competition

29

00:01:11,510 --> 00:01:09,670

since january high school first robotics

30

00:01:14,230 --> 00:01:11,520

teams across the country have worked

31

00:01:16,390 --> 00:01:14,240

tirelessly to build program and test

32

00:01:18,789 --> 00:01:16,400

robots in preparation for upcoming

33

00:01:20,710 --> 00:01:18,799

regional and national tournaments

34

00:01:22,789 --> 00:01:20,720

in hampton roads the nasa knights and

35

00:01:25,030 --> 00:01:22,799

triple helix teams both sponsored by

36

00:01:27,749 --> 00:01:25,040

nasa langley spent nights and weekends

37

00:01:29,749 --> 00:01:27,759

getting their 120 pound robot ready for

38

00:01:33,350 --> 00:01:29,759

this year's challenge called rebound

39

00:01:35,030 --> 00:01:33,360

rumble what it basically is is shooting

40

00:01:37,270 --> 00:01:35,040

foam basketballs

41

00:01:40,390 --> 00:01:37,280

up into basketball hoops that are

42

00:01:42,550 --> 00:01:40,400

arranged in a diamond pattern at both

43

00:01:45,350 --> 00:01:42,560

ends of the field the higher baskets are

44

00:01:47,670 --> 00:01:45,360

worth more points

45

00:01:49,590 --> 00:01:47,680

around 60 robotics teams competed in the

46

00:01:51,670 --> 00:01:49,600

virginia regional tournament held at

47

00:01:53,510 --> 00:01:51,680

virginia commonwealth university segal

48

00:01:55,590 --> 00:01:53,520

center all with the hopes of making it

49

00:01:56,789 --> 00:01:55,600

to the national tournament in st louis

50

00:01:58,389 --> 00:01:56,799

this april

51
00:02:00,630 --> 00:01:58,399
this year's game presented new

52
00:02:02,870 --> 00:02:00,640
challenges even for a season team like

53
00:02:04,709 --> 00:02:02,880
the nasa knights this year had a lot of

54
00:02:06,389 --> 00:02:04,719
neat challenges we actually got a vision

55
00:02:07,990 --> 00:02:06,399
tracking system working where we could

56
00:02:09,430 --> 00:02:08,000
use a camera and see where the backboard

57
00:02:11,029 --> 00:02:09,440
is and then judge your distance by the

58
00:02:12,550 --> 00:02:11,039
size of the backboard and spin their

59
00:02:13,750 --> 00:02:12,560
motors up accordingly which is something

60
00:02:15,270 --> 00:02:13,760
we've never really done before and it

61
00:02:17,270 --> 00:02:15,280
was really neat to

62
00:02:19,030 --> 00:02:17,280
figure out how all that worked both the

63
00:02:20,790 --> 00:02:19,040

nasa knights and triple helix feel

64

00:02:22,070 --> 00:02:20,800

confident about their robots and are

65

00:02:24,229 --> 00:02:22,080

looking forward to making it to

66

00:02:25,270 --> 00:02:24,239

nationals i'm really excited i think we

67

00:02:26,630 --> 00:02:25,280

did really well this year and i'm

68

00:02:29,270 --> 00:02:26,640

looking forward to seeing how everything

69

00:02:33,270 --> 00:02:31,589

first robotics is not only fun but

70

00:02:35,110 --> 00:02:33,280

offers students real engineering

71

00:02:37,990 --> 00:02:35,120

experience and may inspire them to

72

00:02:39,270 --> 00:02:38,000

pursue careers in stem i had no idea

73

00:02:40,869 --> 00:02:39,280

what i wanted to be before i joined the

74

00:02:42,869 --> 00:02:40,879

team but now i want to be a chemistry

75

00:02:43,910 --> 00:02:42,879

major so and

76

00:02:45,830 --> 00:02:43,920

i would have been interested in

77

00:02:47,110 --> 00:02:45,840

chemistry but if not for robotics i

78

00:02:50,790 --> 00:02:47,120

probably wouldn't have ever considered

79

00:02:55,110 --> 00:02:52,390

sponsored by the jet propulsion

80

00:02:56,710 --> 00:02:55,120

laboratory the 21st los angeles regional

81

00:02:59,670 --> 00:02:56,720

first competition at the long beach

82

00:03:01,830 --> 00:02:59,680

convention center matched 66 high school

83

00:03:04,869 --> 00:03:01,840

teams from not only california and

84

00:03:06,470 --> 00:03:04,879

nevada but also brazil and chile i

85

00:03:08,070 --> 00:03:06,480

learned so much because i basically

86

00:03:09,670 --> 00:03:08,080

already wanted to go into engineering so

87

00:03:11,750 --> 00:03:09,680

i just learned so much about robotics

88

00:03:13,110 --> 00:03:11,760

and so many other mechanics about it we

89

00:03:16,149 --> 00:03:13,120

were running out of time towards the end

90

00:03:18,229 --> 00:03:16,159

we had to work a few all-nighters just

91

00:03:20,309 --> 00:03:18,239

don't leave school stay there all night

92

00:03:22,149 --> 00:03:20,319

uh just to get it done but we ended up

93

00:03:23,509 --> 00:03:22,159

getting it all done on time i learned a

94

00:03:27,589 --> 00:03:23,519

lot of technical skills like how to

95

00:03:28,869 --> 00:03:27,599

program in c plus um and also just how

96

00:03:30,550 --> 00:03:28,879

to work with a lot of different types of

97

00:03:31,990 --> 00:03:30,560

people we've had ap students we've had

98

00:03:33,350 --> 00:03:32,000

credit division students everybody

99

00:03:34,869 --> 00:03:33,360

working together

100

00:03:37,030 --> 00:03:34,879

everybody's contributed it hasn't been

101
00:03:38,470 --> 00:03:37,040
just the top everyone's had a good idea

102
00:03:39,830 --> 00:03:38,480
that we've implemented into the robot so

103
00:03:41,270 --> 00:03:39,840
that's been really cool i had so much

104
00:03:43,030 --> 00:03:41,280
fun i learned how to communicate i

105
00:03:45,030 --> 00:03:43,040
learned how to build a robot i learned

106
00:03:47,350 --> 00:03:45,040
how to problem solve and get things done

107
00:03:48,869 --> 00:03:47,360
really quickly while like learning how

108
00:03:50,789 --> 00:03:48,879
to apply the math and science i've

109
00:03:53,350 --> 00:03:50,799
learned since i was a little kid it was

110
00:03:55,670 --> 00:03:53,360
the best thing ever

111
00:03:58,550 --> 00:03:55,680
students from 49 teams in six states

112
00:04:00,309 --> 00:03:58,560
competed for top honors during the 2012

113
00:04:03,270 --> 00:04:00,319

first robotics bayou regional

114

00:04:05,910 --> 00:04:03,280

competition in kenner louisiana as

115

00:04:08,309 --> 00:04:05,920

strong supporters of first nasa and the

116

00:04:11,589 --> 00:04:08,319

stennis space center provided coaches

117

00:04:13,910 --> 00:04:11,599

mentors judges and other volunteers

118

00:04:15,589 --> 00:04:13,920

a team from david thibodeau career and

119

00:04:18,229 --> 00:04:15,599

technical high school in lafayette

120

00:04:20,550 --> 00:04:18,239

louisiana joined a pair of teams from

121

00:04:23,110 --> 00:04:20,560

texas to survive three rounds of

122

00:04:25,749 --> 00:04:23,120

competition and emerge as tournament

123

00:04:27,510 --> 00:04:25,759

champion meanwhile the team representing

124

00:04:29,430 --> 00:04:27,520

north shore high school and the saint

125

00:04:32,070 --> 00:04:29,440

tammany school board in slidell

126
00:04:34,710 --> 00:04:32,080
louisiana walked away with the regional

127
00:04:40,150 --> 00:04:34,720
chairman's award for best partnership

128
00:04:44,790 --> 00:04:42,629
director bob cabana joined kennedy space

129
00:04:46,870 --> 00:04:44,800
center engineers at the first regional

130
00:04:48,950 --> 00:04:46,880
competition at the university of central

131
00:04:51,510 --> 00:04:48,960
florida in orlando

132
00:04:53,430 --> 00:04:51,520
teams from more than 60 high schools

133
00:04:55,670 --> 00:04:53,440
including several from the dominican

134
00:05:01,510 --> 00:04:55,680
republic and australia competed in the

135
00:05:06,070 --> 00:05:03,830
and more than 1500 high school students

136
00:05:08,390 --> 00:05:06,080
competed in the 11th annual buckeye

137
00:05:10,550 --> 00:05:08,400
regional first robotics competition at

138
00:05:11,510 --> 00:05:10,560

cleveland state university's woolstein

139

00:05:14,150 --> 00:05:11,520

center

140

00:05:16,870 --> 00:05:14,160

the event's 60 teams represented schools

141

00:05:19,029 --> 00:05:16,880

and community organizations in ohio

142

00:05:21,510 --> 00:05:19,039

canada maryland new york and

143

00:05:24,469 --> 00:05:21,520

pennsylvania glenn research center

144

00:05:26,629 --> 00:05:24,479

engineers and scientists volunteered as

145

00:05:28,070 --> 00:05:26,639

technical participants and mentors to

146

00:05:29,430 --> 00:05:28,080

the students

147

00:05:31,590 --> 00:05:29,440

the winners of these regional

148

00:05:34,950 --> 00:05:31,600

competitions will meet at the first

149

00:05:37,670 --> 00:05:34,960

championships april 25th through 28th at

150

00:05:41,110 --> 00:05:37,680

the edward jones dome in st louis

151

00:05:43,670 --> 00:05:41,120

some 51 000 students on more than 2 400

152

00:05:45,510 --> 00:05:43,680

teams are expected to vie

153

00:05:48,189 --> 00:05:45,520

the first program was founded by

154

00:05:51,270 --> 00:05:48,199

inventor and entrepreneur dean kamen in

155

00:05:52,870 --> 00:05:51,280

1989 to inspire student interest in

156

00:05:55,430 --> 00:05:52,880

science and engineering through the

157

00:05:57,830 --> 00:05:55,440

building of robots stay tuned to nasa

158

00:06:00,150 --> 00:05:57,840

television and check out nasa.gov and

159

00:06:02,629 --> 00:06:00,160

the nasa television youtube site for