



1  
00:00:09,272 --> 00:00:12,688  
[MUSIC PLAYING]

2  
00:00:14,660 --> 00:00:20,120  
Please provide a warm welcome to  
your tournament MC, Rene Haro.

3  
00:00:20,120 --> 00:00:25,460  
Good morning, Aerospace Valley.

4  
00:00:25,460 --> 00:00:29,900  
Welcome to the 2022 FIRST  
Robotics Competition,

5  
00:00:29,900 --> 00:00:32,840  
and this year's  
challenge, Rapid React,

6  
00:00:32,840 --> 00:00:35,180  
presented by The Boeing Company.

7  
00:00:35,180 --> 00:00:37,220  
Drivers, behind the lines.

8  
00:00:37,220 --> 00:00:39,440  
3, 2, 1, go.

9  
00:00:39,440 --> 00:00:42,723  
[MUSIC PLAYING]

10  
00:00:46,480 --> 00:00:49,450  
FIRST stands for For  
Inspiration, Recognition

11  
00:00:49,450 --> 00:00:51,220  
in Science and Technology.

12  
00:00:51,220 --> 00:00:53,290

They teach all facets  
of engineering.

13

00:00:53,290 --> 00:00:56,650

What it's about is building  
teamwork and relationships,

14

00:00:56,650 --> 00:00:59,710

and giving kids the tools  
they need to succeed in life.

15

00:00:59,710 --> 00:01:03,161

[MUSIC PLAYING]

16

00:01:19,909 --> 00:01:20,909

OK, you got [INAUDIBLE].

17

00:01:20,909 --> 00:01:22,500

You got a bunch right over here.

18

00:01:22,500 --> 00:01:23,000

Here, here--

19

00:01:23,000 --> 00:01:24,890

Pretty cool to see  
what these kids built.

20

00:01:24,890 --> 00:01:25,750

[BELL RINGING]

21

00:01:25,750 --> 00:01:27,880

The mentors guide them.

22

00:01:27,880 --> 00:01:28,760

Yes, right there.

23

00:01:28,760 --> 00:01:29,020

OK.

24

00:01:29,020 --> 00:01:29,430

Try to get to it.

25

00:01:29,430 --> 00:01:29,840

Get to it.

26

00:01:31,210 --> 00:01:30,100

We got it.

27

00:01:31,210 --> 00:01:32,793

But the kids are  
doing all the design.

28

00:01:32,793 --> 00:01:34,960

The kids are figuring  
out what they

29

00:01:34,960 --> 00:01:36,220

want their robot to look like.

30

00:01:36,220 --> 00:01:38,560

And we just help them  
figure out how to get there.

31

00:01:38,560 --> 00:01:41,290

[MUSIC PLAYING]

32

00:01:41,290 --> 00:01:42,655

Lot of contact here.

33

00:01:42,655 --> 00:01:45,000

And they have to  
develop a strategy

34

00:01:45,000 --> 00:01:47,970

to build a robot that  
makes the most points,

35

00:01:47,970 --> 00:01:49,500  
given what the game is.

36

00:01:49,500 --> 00:01:50,805  
[MUSIC PLAYING]

37

00:01:50,805 --> 00:01:53,940  
It usually involves  
some kind of ball

38

00:01:53,940 --> 00:01:55,440  
that you can pick  
up off the ground.

39

00:01:55,440 --> 00:01:57,360  
And then you have to  
throw it into a hoop,

40

00:01:57,360 --> 00:01:58,740  
like a basketball hoop.

41

00:02:01,490 --> 00:02:04,970  
And this year, the other  
task that you have to do

42

00:02:04,970 --> 00:02:06,860  
is climb across monkey bars.

43

00:02:06,860 --> 00:02:10,280  
So the robots actually  
have to stand up, grab

44

00:02:10,280 --> 00:02:13,220  
a bar, then traverse the  
bars at different levels.

45

00:02:16,310 --> 00:02:17,900  
Being on a robotics  
team has taught me

46

00:02:17,900 --> 00:02:19,610

how to work with  
others well, as well as

47

00:02:19,610 --> 00:02:22,610

how to be a good leader  
when you need to be.

48

00:02:22,610 --> 00:02:26,060

It's allowed me to learn a  
lot about myself and a lot

49

00:02:26,060 --> 00:02:27,170

about working with others.

50

00:02:27,170 --> 00:02:30,340

And they're skills that I'll  
use for the rest of my life.

51

00:02:30,340 --> 00:02:31,100

Shoot!

52

00:02:31,100 --> 00:02:31,970

There you go.

53

00:02:31,970 --> 00:02:35,000

NASA has an interest in  
it because the kids that

54

00:02:35,000 --> 00:02:37,370

are coming up  
through this program

55

00:02:37,370 --> 00:02:41,480

are given the tools where  
they will be on that path,

56

00:02:41,480 --> 00:02:43,700

ready-made to come and join us.

57

00:02:43,700 --> 00:02:45,470

And they are sought  
after because they

58

00:02:45,470 --> 00:02:49,700

have the skills for the 21st  
century that businesses want.

59

00:02:49,700 --> 00:02:52,040

[MUSIC PLAYING]

60

00:02:52,040 --> 00:02:54,590

They look at resumes  
for new hires.

61

00:02:54,590 --> 00:02:58,130

And when they see FIRST, those  
are things that they look for.

62

00:02:58,130 --> 00:03:00,680

Because they know the  
kids have the skills

63

00:03:00,680 --> 00:03:06,120

to do real world projects and  
solve real world problems.

64

00:03:06,120 --> 00:03:08,623

I think NASA is a great program  
that I'd be looking forward

65

00:03:08,623 --> 00:03:11,040

to go to, especially because  
we have so many resources out

66

00:03:11,040 --> 00:03:12,300

in the Valley.

67

00:03:12,300 --> 00:03:14,730

I plan to go into engineering  
when I'm in college.

68

00:03:14,730 --> 00:03:17,160

So it's really great to have  
all this prior experience

69

00:03:17,160 --> 00:03:17,820

beforehand.

70

00:03:17,820 --> 00:03:19,860

I think even with all  
the engineering classes

71

00:03:19,860 --> 00:03:22,110

I'm taking at school, it's  
great to be continuing this

72

00:03:22,110 --> 00:03:24,580

after school, and be able  
to do so many hours into it.

73

00:03:24,580 --> 00:03:26,680

We've got a traversal  
climb in the works in blue.

74

00:03:26,680 --> 00:03:29,350

You'll see students here  
from all walks of life.

75

00:03:29,350 --> 00:03:30,910

Two on the one ending.

76

00:03:30,910 --> 00:03:32,920

And they're all contributing.

77

00:03:32,920 --> 00:03:35,180

And so we want  
diversity at NASA.

78

00:03:35,180 --> 00:03:36,610

Looks even on the end.

79

00:03:36,610 --> 00:03:37,990

This is going to be close.

80

00:03:37,990 --> 00:03:40,610

In 3, in 2, in 1.

81

00:03:40,610 --> 00:03:43,550

[BUZZER]

82

00:03:43,550 --> 00:03:46,970

[CHEERING]

83

00:03:47,470 --> 00:03:50,770

All those experiences that  
these kids have just--

84

00:03:50,770 --> 00:03:52,930

they make a better,  
stronger workforce.

85

00:03:52,930 --> 00:03:55,840

I think it's a great inspiration  
for people in younger grades

86

00:03:55,840 --> 00:03:59,290

that they're seeing more  
girls like us in this field,

87

00:03:59,290 --> 00:04:02,440

so that they can  
continue to do it, too.

88

00:04:02,440 --> 00:04:05,140

My dream career is to work  
at NASA's Jet Propulsion

89

00:04:05,140 --> 00:04:05,650

Laboratory.

90

00:04:05,650 --> 00:04:06,520

On your right!

91

00:04:06,520 --> 00:04:08,380

Because I want to  
build a space probe

92

00:04:08,380 --> 00:04:10,280

that goes out past  
our solar system.

93

00:04:10,280 --> 00:04:12,610

I want to learn more about  
our neighboring universes

94

00:04:12,610 --> 00:04:15,014

and just explore the cosmos.

95

00:04:16,490 --> 00:04:15,514

Yeah!

96

00:04:16,490 --> 00:04:16,990

Yes!

97

00:04:16,990 --> 00:04:19,779

From being young and  
playing with LEGOs

98

00:04:19,779 --> 00:04:22,520

to now building robots,  
it's an amazing experience.

99

00:04:22,520 --> 00:04:24,730

And I've had so much  
fun in FIRST Robotics.

100  
00:04:24,730 --> 00:04:25,300  
[BUZZER]

101  
00:04:25,300 --> 00:04:26,920  
OK.

102  
00:04:26,920 --> 00:04:28,480  
So this room, this is the pits.

103  
00:04:28,480 --> 00:04:33,160  
This is where the robots  
come back to after a match.

104  
00:04:33,160 --> 00:04:35,200  
If something breaks,  
these guys got to fix it.

105  
00:04:35,200 --> 00:04:36,370  
They've got to fix it fast.

106  
00:04:36,370 --> 00:04:37,766  
[CHEERING]

107  
00:04:37,766 --> 00:04:38,266  
Yeah!

108  
00:04:40,162 --> 00:04:38,766  
Oh!

109  
00:04:40,162 --> 00:04:42,460  
[MOTOR SPINNING]

110  
00:04:42,460 --> 00:04:43,710  
So they've got to have spares.

111  
00:04:43,710 --> 00:04:46,620  
They've got to do

some quick fabrication

112

00:04:46,620 --> 00:04:47,980

to replace those parts.

113

00:04:47,980 --> 00:04:49,750

And they've got to  
get back out there.

114

00:04:49,750 --> 00:04:50,960

I love robots.

115

00:04:50,960 --> 00:04:51,460

Yeah.

116

00:04:51,460 --> 00:04:54,820

[MUSIC PLAYING]

117

00:04:56,260 --> 00:04:59,140

[BUZZER]

118

00:04:59,140 --> 00:05:01,070

[CHEERING]

119

00:05:01,070 --> 00:05:02,210

Two minutes remaining.