



1
00:00:03,990 --> 00:00:01,510

[Music]

2
00:00:06,710 --> 00:00:04,000

i think the best innovations come from

3
00:00:08,870 --> 00:00:06,720

the unlikeliest of sources and i think

4
00:00:10,390 --> 00:00:08,880

we all have some really great ideas in

5
00:00:11,490 --> 00:00:10,400

all of us ideas that could probably

6
00:00:12,870 --> 00:00:11,500

change the world

7
00:00:15,350 --> 00:00:12,880

[Music]

8
00:00:17,269 --> 00:00:15,360

my name is matthew bailey and i'm the

9
00:00:19,830 --> 00:00:17,279

operations manager for the national

10
00:00:22,870 --> 00:00:19,840

transonic facility complex in my current

11
00:00:25,109 --> 00:00:22,880

position i manage operations at two

12
00:00:27,429 --> 00:00:25,119

cryogenic wind tunnels here at nasa

13
00:00:29,269 --> 00:00:27,439

langley so at these facilities we

14

00:00:31,189 --> 00:00:29,279

specialize in

15

00:00:33,990 --> 00:00:31,199

high reynolds number or flight rentals

16

00:00:36,950 --> 00:00:34,000

number testing which is to say

17

00:00:39,430 --> 00:00:36,960

we're the world's best at uh matching

18

00:00:41,830 --> 00:00:39,440

scaling effects for aerodynamic problems

19

00:00:44,150 --> 00:00:41,840

so this is the control room of the ntf

20

00:00:45,670 --> 00:00:44,160

and it's probably to the control room of

21

00:00:48,310 --> 00:00:45,680

the most complex wind tunnel on the

22

00:00:51,189 --> 00:00:48,320

planet right now at the ntf we're

23

00:00:53,029 --> 00:00:51,199

testing the space launch system or sls

24

00:00:55,430 --> 00:00:53,039

so it's really exciting because the goal

25

00:00:57,990 --> 00:00:55,440

that we have is to set human beings back

26
00:00:59,590 --> 00:00:58,000
on the moon by 2024 and the effort that

27
00:01:02,389 --> 00:00:59,600
we're doing right now is a huge part of

28
00:01:04,070 --> 00:01:02,399
that even as a child i remember

29
00:01:05,590 --> 00:01:04,080
being fascinated with everything that

30
00:01:07,910 --> 00:01:05,600
flies

31
00:01:10,630 --> 00:01:07,920
i'd go to airports and see airplanes

32
00:01:13,750 --> 00:01:10,640
take off and land and seeing my first

33
00:01:15,749 --> 00:01:13,760
rocket launch was incredible so now to

34
00:01:17,990 --> 00:01:15,759
be in a position where

35
00:01:21,109 --> 00:01:18,000
i get to be a part of that process it's

36
00:01:23,190 --> 00:01:21,119
it's truly humbling my first passion was

37
00:01:25,830 --> 00:01:23,200
piloting i wanted to become a pilot i

38
00:01:28,070 --> 00:01:25,840

wasn't until entering college that i

39

00:01:30,789 --> 00:01:28,080

realized that the engineering side of

40

00:01:34,069 --> 00:01:30,799

this world was exciting too it was

41

00:01:37,270 --> 00:01:34,079

time-consuming tedious nasa became the

42

00:01:40,469 --> 00:01:37,280

pinnacle of my goal about mid-college i

43

00:01:42,710 --> 00:01:40,479

did an internship with nasa i realized

44

00:01:44,950 --> 00:01:42,720

that uh working on the types of projects

45

00:01:46,630 --> 00:01:44,960

the types of research that nasa is doing

46

00:01:48,950 --> 00:01:46,640

now and in the future is something that

47

00:01:51,030 --> 00:01:48,960

i really wanted to do so this being here

48

00:01:53,429 --> 00:01:51,040

is really is kind of a dream come true i

49

00:01:55,830 --> 00:01:53,439

think nasa is a great place for ideas to

50

00:01:57,270 --> 00:01:55,840

come together and for innovation to

51

00:01:59,990 --> 00:01:57,280

become a reality

52

00:02:02,950 --> 00:02:00,000

because i think they've always been a

53

00:02:04,709 --> 00:02:02,960

leader in the industry for

54

00:02:07,270 --> 00:02:04,719

allowing

55

00:02:09,029 --> 00:02:07,280

i guess the marginalized of society to

56

00:02:10,869 --> 00:02:09,039

come together and share ideas for them

57

00:02:12,710 --> 00:02:10,879

to be heard and i think that because

58

00:02:14,550 --> 00:02:12,720

they've done that so early

59

00:02:16,869 --> 00:02:14,560

they've seen success that comes from

60

00:02:18,150 --> 00:02:16,879

diverse ideas getting to

61

00:02:19,350 --> 00:02:18,160

mingle together

62

00:02:21,350 --> 00:02:19,360

i do think it's important to have

63

00:02:22,550 --> 00:02:21,360

diversity especially diversity of

64

00:02:23,990 --> 00:02:22,560

thought

65

00:02:26,070 --> 00:02:24,000

when you have people from diverse

66

00:02:28,309 --> 00:02:26,080

horizons that come together and they

67

00:02:29,990 --> 00:02:28,319

share ideas and everyone

68

00:02:31,589 --> 00:02:30,000

gets to hear what the other person is