
15th Anniversary

1
00:00:12,789 --> 00:00:10,549
in the future a group of adults will use

2
00:00:14,950 --> 00:00:12,799
their intellect their leadership and

3
00:00:17,189 --> 00:00:14,960
their innovations to shape the world

4
00:00:19,910 --> 00:00:17,199
they will use their talent to carry the

5
00:00:22,150 --> 00:00:19,920
human race to new levels of ingenuity

6
00:00:25,029 --> 00:00:22,160
today they have just completed their

7
00:00:34,310 --> 00:00:25,039
first mission the haas summer experience

8
00:00:38,869 --> 00:00:37,750
students were split up into groups red

9
00:00:39,830 --> 00:00:38,879
white

10
00:00:42,389 --> 00:00:39,840
blue

11
00:00:44,389 --> 00:00:42,399
and gray and the teams collaborated as a

12
00:00:47,750 --> 00:00:44,399
whole to plan a potential mission to

13
00:00:49,750 --> 00:00:47,760

promote the human exploration of mars

14
00:00:51,830 --> 00:00:49,760
as system manager i oversee our main

15
00:00:54,310 --> 00:00:51,840
subgroups and special projects i work

16
00:00:56,470 --> 00:00:54,320
closely with the point of contact to

17
00:00:58,470 --> 00:00:56,480
make sure that everyone is informed and

18
00:01:00,310 --> 00:00:58,480
things are going smoothly

19
00:01:02,229 --> 00:01:00,320
so my name is jose flores and i was a

20
00:01:03,029 --> 00:01:02,239
poc or the point of contact for the red

21
00:01:04,310 --> 00:01:03,039
team

22
00:01:06,070 --> 00:01:04,320
i controlled a lot of the aspects of

23
00:01:07,750 --> 00:01:06,080
communication for my team between you

24
00:01:09,590 --> 00:01:07,760
know between teams for my rent team to

25
00:01:11,670 --> 00:01:09,600
the blue team to the great team

26
00:01:13,190 --> 00:01:11,680
i am the system engineer for rational

27
00:01:15,190 --> 00:01:13,200
and risk assessments we will be

28
00:01:16,550 --> 00:01:15,200
researching about how likely the risk

29
00:01:18,950 --> 00:01:16,560
will occur

30
00:01:20,710 --> 00:01:18,960
how to fix the problem and how to

31
00:01:21,990 --> 00:01:20,720
minimize the risk during the journey

32
00:01:24,149 --> 00:01:22,000
tomorrow

33
00:01:25,670 --> 00:01:24,159
working with others currently my

34
00:01:27,749 --> 00:01:25,680
teammates and i are working and

35
00:01:30,469 --> 00:01:27,759
attempting to find the best way to

36
00:01:33,429 --> 00:01:30,479
travel to mars and by doing this i feel

37
00:01:35,109 --> 00:01:33,439
like i'm part of nasa and it feels

38
00:01:37,350 --> 00:01:35,119

amazing

39
00:01:39,270 --> 00:01:37,360
hi my name is arishi divale i am the

40
00:01:41,749 --> 00:01:39,280
system engineer for the interplanetary

41
00:01:43,510 --> 00:01:41,759
spacecraft design and red team

42
00:01:45,190 --> 00:01:43,520
currently we're trying to implement the

43
00:01:47,350 --> 00:01:45,200
vasmir

44
00:01:49,910 --> 00:01:47,360
rocket propulsion technology on our

45
00:01:51,910 --> 00:01:49,920
spacecraft

46
00:01:54,230 --> 00:01:51,920
students were given the opportunity to

47
00:01:57,350 --> 00:01:54,240
speak with nasa employees and cite them

48
00:01:58,709 --> 00:01:57,360
in their final presentation

49
00:02:00,389 --> 00:01:58,719
the most interesting thing i learned

50
00:02:02,469 --> 00:02:00,399
during the interview was how the

51
00:02:03,910 --> 00:02:02,479
vassamer engine the engine that we use

52
00:02:05,990 --> 00:02:03,920
that we chose

53
00:02:07,670 --> 00:02:06,000
uses constant propulsion to reach mars

54
00:02:09,430 --> 00:02:07,680
faster than a conventional rocket cam

55
00:02:11,430 --> 00:02:09,440
very slowly with it it's a very very

56
00:02:13,430 --> 00:02:11,440
efficient engine

57
00:02:16,150 --> 00:02:13,440
i played a large part in developing and

58
00:02:18,150 --> 00:02:16,160
building an nxt rover this rover is the

59
00:02:21,030 --> 00:02:18,160
nxt computer mounted on top of a

60
00:02:22,949 --> 00:02:21,040
four-wheel drive train and an arm we

61
00:02:25,430 --> 00:02:22,959
will use the arm drive train and a

62
00:02:27,670 --> 00:02:25,440
microphone to collect and identify rock

63
00:02:29,830 --> 00:02:27,680

and water samples in competition with

64
00:02:31,589 --> 00:02:29,840
three other teams

65
00:02:33,509 --> 00:02:31,599
i am the lunar prototyping and testing

66
00:02:35,110 --> 00:02:33,519
systems engineer i oversee all the

67
00:02:37,509 --> 00:02:35,120
research and development of primary and

68
00:02:39,430 --> 00:02:37,519
secondary systems on the lunar surface i

69
00:02:41,190 --> 00:02:39,440
find that communication is a vital tool

70
00:02:43,190 --> 00:02:41,200
needed for this position as well as for

71
00:02:45,270 --> 00:02:43,200
the team

72
00:02:47,350 --> 00:02:45,280
along with the final project students

73
00:02:49,350 --> 00:02:47,360
work together to complete challenges and

74
00:02:51,509 --> 00:02:49,360
innovation including the real-life

75
00:02:53,589 --> 00:02:51,519
struggle of planning financing and

76
00:03:06,710 --> 00:02:53,599
engineering a successful spacecraft

77
00:03:10,630 --> 00:03:08,309
throughout the week a number of

78
00:03:16,070 --> 00:03:10,640
experienced nasa employees presented

79
00:03:20,710 --> 00:03:18,070
i concentrated throughout my astronaut

80
00:03:23,030 --> 00:03:20,720
career and talking to young people about

81
00:03:25,430 --> 00:03:23,040
setting goals for themselves and working

82
00:03:27,430 --> 00:03:25,440
hard to achieve those goals

83
00:03:29,190 --> 00:03:27,440
you can't pursue a dream you can't

84
00:03:30,550 --> 00:03:29,200
achieve a dream if you don't have a

85
00:03:32,149 --> 00:03:30,560
dream

86
00:03:33,670 --> 00:03:32,159
and i personally think that everybody

87
00:03:35,589 --> 00:03:33,680
was put on the surface of the earth by

88
00:03:37,190 --> 00:03:35,599

god for a certain reason

89
00:03:39,110 --> 00:03:37,200
and that reason is something that you

90
00:03:40,550 --> 00:03:39,120
have to figure out what it is what are

91
00:03:42,390 --> 00:03:40,560
your likes what are your dislikes what

92
00:03:45,030 --> 00:03:42,400
are your talents what would you pay to

93
00:03:46,630 --> 00:03:45,040
do if you could do it

94
00:03:48,470 --> 00:03:46,640
the most important thing that we walk

95
00:03:50,470 --> 00:03:48,480
away with from this program is the

96
00:03:52,789 --> 00:03:50,480
skills we developed from working in a

97
00:03:54,630 --> 00:03:52,799
team we gained first-hand experience in

98
00:03:56,309 --> 00:03:54,640
the various aspects of teamwork which

99
00:03:58,229 --> 00:03:56,319
would be useful in many real world

100
00:04:00,630 --> 00:03:58,239
situations in the workplace especially

101
00:04:02,149 --> 00:04:00,640
if any of us choose to work at nasa

102
00:04:03,190 --> 00:04:02,159
where communication is the key to

103
00:04:04,710 --> 00:04:03,200
success

104
00:04:06,710 --> 00:04:04,720
all of our team members had to learn

105
00:04:08,550 --> 00:04:06,720
about dividing workloads maintaining an

106
00:04:10,309 --> 00:04:08,560
energetic attitude and communicating

107
00:04:12,149 --> 00:04:10,319
effectively to ensure the successful

108
00:04:13,990 --> 00:04:12,159
completion of our project

109
00:04:16,229 --> 00:04:14,000
students participating in the haas

110
00:04:18,069 --> 00:04:16,239
experience were not only given a glimpse

111
00:04:20,469 --> 00:04:18,079
of their role in the future of space

112
00:04:21,909 --> 00:04:20,479
exploration but were also reminded of

113
00:04:23,990 --> 00:04:21,919

the achievements of those who came

114
00:04:25,990 --> 00:04:24,000
before them with a complete tour of the

115
00:04:27,510 --> 00:04:26,000
johnson space center and a presentation

116
00:04:29,270 --> 00:04:27,520
by gene kranz

117
00:04:31,030 --> 00:04:29,280
mission control there's no such thing as

118
00:04:33,350 --> 00:04:31,040
a first team because once we launch

119
00:04:35,270 --> 00:04:33,360
everything must be capable of

120
00:04:37,590 --> 00:04:35,280
accomplishing the mission

121
00:04:39,510 --> 00:04:37,600
and finally one we must act alone and we

122
00:04:41,749 --> 00:04:39,520
know that time will come to each of us

123
00:04:43,670 --> 00:04:41,759
we are never alone because we know our

124
00:04:46,629 --> 00:04:43,680
team stands with us

125
00:04:47,830 --> 00:04:46,639
and our line of work failure is not an

126
00:04:50,230 --> 00:04:47,840
option

127
00:04:52,070 --> 00:04:50,240
very challenging but it's a marvelous

128
00:04:54,550 --> 00:04:52,080
way to live

129
00:04:56,790 --> 00:04:54,560
the future of space exploration is the