



1
00:00:01,267 --> 00:00:10,844
[MUSIC]

2
00:00:10,944 --> 00:00:13,179
- NOW, I'D LIKE TO TALK,
IN GENERAL TERMS,

3
00:00:13,279 --> 00:00:15,348
ABOUT HOW YOU DECIDED

4
00:00:15,448 --> 00:00:19,319
THE ENGINEERING
OR SCIENCE FIELD,

5
00:00:19,419 --> 00:00:21,221
HOW YOU DECIDED YOUR CAREER.

6
00:00:21,321 --> 00:00:23,189
THERE IS A COUNTLESS NUMBER
OF STUDENTS

7
00:00:23,289 --> 00:00:28,428
WHO ARE INTERESTED
IN LEARNING MORE ABOUT SCIENCE,

8
00:00:28,528 --> 00:00:30,296
ENGINEERING AND MATHEMATICS
CAREERS,

9
00:00:30,397 --> 00:00:32,599
AND WHO WOULD BE BETTER
FOR THAT THAN YOU,

10
00:00:32,699 --> 00:00:35,535
WHO HAVE BEEN WORKING AT NASA

11
00:00:35,635 --> 00:00:37,737
AND CONTRIBUTING
TO TECHNOLOGY FOR YEARS?

12

00:00:39,205 --> 00:00:42,042

WHO WANTS TO START? ANY OF YOU.

13

00:00:42,142 --> 00:00:43,676

- I'LL START.

14

00:00:43,777 --> 00:00:47,547

SINCE I WAS LITTLE,
I'VE ALWAYS LIKED MATH

15

00:00:47,647 --> 00:00:52,385

AND, TO BE HONEST,
I WASN'T A PERFECT STUDENT,

16

00:00:52,485 --> 00:00:56,089

BUT I ALWAYS WAS PERSISTENT.

17

00:00:56,189 --> 00:00:59,692

I LIKED MATH A LOT
AND, WHEN I WENT TO UNIVERSITY,

18

00:00:59,793 --> 00:01:02,295

I HADN'T DECIDED
WHAT I WANTED TO DO,

19

00:01:02,395 --> 00:01:07,367

BUT MATHS AND PHYSICS
ALWAYS INTERESTED ME,

20

00:01:07,467 --> 00:01:10,503

SO, I CHOSE THAT PATH.

21

00:01:10,603 --> 00:01:13,239

I DECIDED
TO BE A MECHANICAL ENGINEER,

22

00:01:13,339 --> 00:01:16,776

BECAUSE I LIKE HOLDING THINGS,

23

00:01:16,876 --> 00:01:18,311

TOUCHING THEM--

- YOU LIKE BREAKING THINGS.

24

00:01:18,411 --> 00:01:19,612

- AND I LIKE BREAKING THINGS,

25

00:01:19,712 --> 00:01:20,847

AND THAT'S WHY--

- YOU LIKE BREAKING THINGS

26

00:01:20,947 --> 00:01:22,215

AND TRYING

TO PUT THEM TOGETHER AGAIN.

27

00:01:22,315 --> 00:01:23,950

- EXACTLY. THAT'S WHY

I'M A MECHANICAL ENGINEER

28

00:01:24,050 --> 00:01:27,520

SPECIALIZED

ON DYNAMIC STRUCTURES

29

00:01:27,620 --> 00:01:29,255

WHERE, LIKE SHE SAID,

30

00:01:29,355 --> 00:01:30,924

I BREAK THINGS,

AND OTHER PEOPLE FIX THEM.

31

00:01:31,024 --> 00:01:32,492

[LAUGHING]

32

00:01:32,592 --> 00:01:36,796

- SO, VICENTE,

WHERE ARE YOU FROM?

33

00:01:36,896 --> 00:01:38,798

- MY PARENTS ARE ECUADORIAN.

34

00:01:38,898 --> 00:01:40,767

I WAS BORN IN BROOKLYN,
NEW YORK,

35

00:01:40,867 --> 00:01:43,203

BUT I GREW UP IN GUAYAQUIL,
ECUADOR.

36

00:01:43,303 --> 00:01:45,305

I WENT TO ELEMENTARY SCHOOL
AND HIGH SCHOOL

37

00:01:45,405 --> 00:01:47,707

IN GUAYAQUIL, ECUADOR.

38

00:01:47,807 --> 00:01:51,478

AND THEN, I WENT TO UNIVERSITY
AT STONY BROOK, NEW YORK,

39

00:01:51,578 --> 00:01:53,813

HERE, IN THE UNITED STATES.

40

00:01:53,913 --> 00:01:57,383

- AND HOW DID YOU DECIDE
TO WORK AT NASA?

41

00:01:57,484 --> 00:02:00,420

HOW DID THAT HAPPEN?

- I REMEMBER THAT,

42

00:02:00,520 --> 00:02:02,155

WHEN I WAS 12 OR 13 YEARS OLD,

43

00:02:02,255 --> 00:02:05,125

THERE WAS
A SCIENCE FICTION SHOW,

44

00:02:05,225 --> 00:02:09,629
AND THAT'S WHERE MY CURIOSITY
ABOUT SPACE CAME FROM.

45
00:02:09,729 --> 00:02:10,897
FORTUNATELY,

46
00:02:10,997 --> 00:02:13,466
WHEN I GRADUATED
FROM UNIVERSITY,

47
00:02:15,535 --> 00:02:20,140
I GOT A POSITION
IN A COMPANY RELATED TO SPACE.

48
00:02:20,240 --> 00:02:23,409
AND THEN,
I WANTED TO WORK AT NASA.

49
00:02:23,510 --> 00:02:28,882
I WAS LUCKY ENOUGH
TO FIND AN OPEN POSITION

50
00:02:28,982 --> 00:02:30,617
IN THE AREA I LIKE

51
00:02:30,717 --> 00:02:33,686
AND, I'VE BEEN WORKING
FOR NASA FOR 20 YEARS NOW.

52
00:02:33,786 --> 00:02:37,223
- EXCELLENT,
THANK YOU, VICENTE.

53
00:02:37,323 --> 00:02:41,027
- DION, DR. HERNANDEZ LUGO.

54
00:02:41,127 --> 00:02:42,061
SO, DION,

55

00:02:42,162 --> 00:02:43,229

WE HAVE SOMETHING IN COMMON,
RIGHT?

56

00:02:43,329 --> 00:02:45,632

WE BOTH ARE FROM PUERTO RICO.
- YES, EXACTLY.

57

00:02:45,732 --> 00:02:49,235

- I WAS BORN IN PONCE,

58

00:02:49,335 --> 00:02:51,504

BUT I WAS PRACTICALLY RAISED
IN ADJUNTAS,

59

00:02:51,604 --> 00:02:56,075

WHICH IS A SMALL TOWN
IN THE MOUNTAINS IN PUERTO RICO.

60

00:02:57,644 --> 00:03:00,747

I STUDIED CHEMICAL ENGINEERING

61

00:03:00,847 --> 00:03:03,950

AT THE UNIVERSITY
OF PUERTO RICO, MAYAGUEZ SCHOOL,

62

00:03:04,050 --> 00:03:06,986

AND I WAS LUCKY ENOUGH,
LIKE YOU SAID,

63

00:03:07,086 --> 00:03:11,457

TO GET AN OFFER FROM NASA,
AND I CAME TO WORK FOR NASA.

64

00:03:11,558 --> 00:03:13,793

I STARTED OUT AS A RESEARCHER,

65

00:03:13,893 --> 00:03:16,696

AND I CONTINUED,

AT THE SAME TIME I WAS WORKING,

66

00:03:16,796 --> 00:03:20,600

I FINISHED MY MASTERS' DEGREE
AT THE UNIVERSITY OF TOLEDO

67

00:03:20,700 --> 00:03:24,837

AND MY PHD HERE,
IN CLEVELAND, OHIO,

68

00:03:24,938 --> 00:03:26,673

AT WESTERN RESERVE UNIVERSITY.

69

00:03:26,773 --> 00:03:29,442

SO, DION, WHERE WERE YOU BORN?

70

00:03:29,542 --> 00:03:32,845

WHERE DID YOU STUDY?
HOW DID YOU COME TO NASA?

71

00:03:32,946 --> 00:03:34,414

- WELL,
WE HAVE THREE THINGS IN COMMON.

72

00:03:34,514 --> 00:03:36,182

[LAUGHING]

73

00:03:36,282 --> 00:03:38,585

I WAS BORN AND RAISED
IN PUERTO RICO.

74

00:03:38,685 --> 00:03:40,119

I WAS BORN IN PONCE.

75

00:03:40,220 --> 00:03:42,755

- OH, I DIDN'T KNOW!
- I WAS BORN IN PONCE,

76

00:03:42,855 --> 00:03:46,025

AND I STUDIED AT U.P., TOO.

77

00:03:46,125 --> 00:03:47,560

I WAS--

- AND THE U.P.

78

00:03:47,660 --> 00:03:48,595

IS THE UNIVERSITY

OF PUERTO RICO?

79

00:03:48,695 --> 00:03:49,696

- THE UNIVERSITY

OF PUERTO RICO,

80

00:03:49,796 --> 00:03:51,197

BUT I STUDIED AT RIO PIEDRAS.

81

00:03:53,166 --> 00:03:56,336

SO, I GOT INTERESTED

IN THE AREA OF SCIENCE

82

00:03:56,436 --> 00:03:58,571

AROUND 5TH GRADE.

83

00:03:58,671 --> 00:04:02,008

MY MOM BOUGHT ME

A SMALL MICROSCOPE

84

00:04:02,108 --> 00:04:03,376

AND, SINCE THEN,

85

00:04:03,476 --> 00:04:06,012

I STARTED BEING INTERESTED

IN SEEING DIFFERENT SAMPLES.

86

00:04:06,112 --> 00:04:08,114

I'D BRING THIS MICROSCOPE

WHEREVER I'D GO.

87

00:04:09,816 --> 00:04:14,354
IN FAMILY REUNIONS, OBVIOUSLY,
THE ADULTS WERE ALWAYS CHATTING.

88
00:04:14,454 --> 00:04:16,055
I'D ASK MY AUNT,
WHO'S A TEACHER,

89
00:04:16,155 --> 00:04:18,391
TO GIVE ME
VERY LONG MATH EXERCISES,

90
00:04:18,491 --> 00:04:19,626
AND THAT'S HOW I'D HAVE FUN.

91
00:04:19,726 --> 00:04:22,562
HOW BORING,
BUT THAT'S HOW I'D HAVE FUN.

92
00:04:22,662 --> 00:04:26,899
SO, THAT'S WHEN MY INTEREST
FOR THE SCIENCE AREA WAS BORN.

93
00:04:27,000 --> 00:04:29,869
IT WASN'T UNTIL I DID MY PHD

94
00:04:29,969 --> 00:04:33,840
THAT I STARTED WORKING
WITH TECHNOLOGY

95
00:04:33,940 --> 00:04:37,443
THAT HAS TO DO WITH NASA,
PARTICULARLY.

96
00:04:37,543 --> 00:04:41,714
BUT, BEFORE DOING MY PHD,
I WAS INTERESTED IN SCIENCE,

97
00:04:41,814 --> 00:04:45,351
AND PEOPLE WOULD ALWAYS TELL ME

I SHOULD STUDY MEDICINE.

98

00:04:45,451 --> 00:04:46,753

EVERYONE WOULD TELL ME:

99

00:04:46,853 --> 00:04:48,588

"YOU SHOULD BE A PHYSICIAN,
YOU SHOULD STUDY MEDICINE."

100

00:04:48,688 --> 00:04:51,457

SO, THAT'S HOW I STARTED OUT.

101

00:04:51,557 --> 00:04:53,293

I WENT TO PRE-MEDICAL SCHOOL

102

00:04:53,393 --> 00:04:55,662

AND GOT INTO MY FIRST YEAR
OF MEDICINE,

103

00:04:55,762 --> 00:04:57,930

BUT WHEN I WAS IN MY FIRST YEAR,

104

00:04:58,031 --> 00:05:01,134

I HAD THE OPPORTUNITY
OF VISITING THE MORGUE.

105

00:05:01,234 --> 00:05:02,902

THAT'S WHEN I SAID:
"THIS ISN'T FOR ME.

106

00:05:03,002 --> 00:05:07,273

I'M NOT GOING TO WORK
WITH CORPSES, NO."

107

00:05:07,373 --> 00:05:09,742

THEN, I SWITCHED PROGRAMS.

108

00:05:09,842 --> 00:05:12,011

SINCE I LIKED MATH SO MUCH,

109

00:05:12,111 --> 00:05:16,015

CHEMISTRY WAS THE CLOSEST THING
TO THE AREA OF MATH.

110

00:05:16,115 --> 00:05:18,284

I KNEW THAT I DIDN'T WANT
TO STUDY BIOLOGY.

111

00:05:18,384 --> 00:05:22,088

SO, I GOT A BACHELOR'S DEGREE
IN INDUSTRIAL CHEMISTRY

112

00:05:22,188 --> 00:05:24,023

AND A PHD
IN PHYSICAL CHEMISTRY,

113

00:05:24,123 --> 00:05:26,025

BOTH OF THEM AT THE UNIVERSITY
OF PUERTO RICO.

114

00:05:26,125 --> 00:05:29,595

WHEN I WAS DOING MY PHD,
NASA OFFERED MY A SCHOLARSHIP,

115

00:05:29,696 --> 00:05:31,831

THE HARRIETT JENKINS FELLOWSHIP,

116

00:05:31,931 --> 00:05:34,734

AND THAT FELLOWSHIP ALLOWED ME
TO COME TO NASA

117

00:05:34,834 --> 00:05:38,271

AS AN INTERNSHIP STUDENT
FOR THREE YEARS.

118

00:05:38,371 --> 00:05:39,439

- THAT'S WHEN
WE MET EACH OTHER, RIGHT?

119

00:05:39,539 --> 00:05:41,808

- THAT'S WHEN WE MET,
THAT'S WHEN WE MET.

120

00:05:41,908 --> 00:05:46,346

SO, THEN, I GOT A POSITION

121

00:05:46,446 --> 00:05:50,249

AS A PATHWAYS INTERN.

122

00:05:50,350 --> 00:05:54,120

THAT'S WHEN I GOT THE OFFER,

123

00:05:54,220 --> 00:05:57,323

AND I COULD START WORKING HERE,
AT NASA.

124

00:05:57,423 --> 00:06:00,760

SO, MY PROCESS
WAS A LITTLE LONG,

125

00:06:00,860 --> 00:06:05,231

BUT I HAD THE OPPORTUNITY,
THE BENEFIT

126

00:06:05,331 --> 00:06:07,333

OF GETTING
DIFFERENT EDUCATION PROGRAMS

127

00:06:07,433 --> 00:06:11,037

THAT NASA OFFERS
AND I COURSED ALL OF THEM.

128

00:06:11,137 --> 00:06:15,441

AND THAT'S WHAT ALLOWED ME
TO BE HERE AND WORK AT NASA,

129

00:06:15,541 --> 00:06:18,077

WHICH HAS BEEN MY DREAM

SINCE I WAS LITTLE.

130

00:06:18,177 --> 00:06:23,383

- THERE ARE SOME THINGS
THAT STUDENTS SHOULD NOTE,

131

00:06:23,483 --> 00:06:26,285

AND THE FIRST THING IS THAT,

132

00:06:26,386 --> 00:06:27,787

NO MATTER
WHAT DECISION YOU MAKE,

133

00:06:27,887 --> 00:06:31,357

YOU CAN ALWAYS
MAKE THE DECISION TO CHANGE.

134

00:06:31,457 --> 00:06:33,593

BECAUSE YOU CHOSE MEDICINE,
RIGHT?

135

00:06:33,693 --> 00:06:34,927

- YES.
- AND YOU DECIDED AT SOME POINT

136

00:06:35,027 --> 00:06:36,329

THAT MEDICINE WASN'T FOR YOU.

137

00:06:36,429 --> 00:06:37,730

YOU ENDED UP BEING A DOCTOR,

138

00:06:37,830 --> 00:06:39,465

DOCTOR IN A DIFFERENT FIELD.
- IN A DIFFERENT AREA.

139

00:06:39,565 --> 00:06:42,135

- BUT EITHER WAY,
YOU ENDED UP BEING A DOCTOR.

140

00:06:42,235 --> 00:06:44,404

- YES.

- BUT THAT INTEREST IN SCIENCE

141

00:06:44,504 --> 00:06:48,775

AND MATH OBVIOUSLY IS REFLECTED,

142

00:06:48,875 --> 00:06:52,078

REGARDING

YOUR PROFESSIONAL CAREER,

143

00:06:52,178 --> 00:06:54,847

AND THE FACT

THAT THE OPPORTUNITIES YOU HAD

144

00:06:54,947 --> 00:06:59,285

TO DEVELOP PROFESSIONALLY

AND WHERE YOU ARE RIGHT NOW.

145

00:06:59,385 --> 00:07:01,487

- YES.

- SO, IT'S VERY MOTIVATING,

146

00:07:01,587 --> 00:07:03,990

THANK YOU, DION.

- THANK YOU.

147

00:07:04,090 --> 00:07:05,358

- SO, RAFAEL,

148

00:07:05,458 --> 00:07:08,895

WE HEARD ABOUT VICENTE

AND DION'S PROFESSIONAL CAREER.

149

00:07:08,995 --> 00:07:10,229

COULD YOU TELL US ABOUT YOURS?

150

00:07:10,329 --> 00:07:13,266

- I'M THE YOUNG ONE

IN THE GROUP.

151

00:07:14,734 --> 00:07:16,903

I WAS BORN IN HUMACAO,
PUERTO RICO.

152

00:07:17,003 --> 00:07:19,839

I LIVED IN SAN LORENZO,

153

00:07:19,939 --> 00:07:23,376

AND I GRADUATED
FROM THE MAYAGUEZ UNIVERSITY,

154

00:07:23,476 --> 00:07:25,011

IN MECHANICAL ENGINEERING.

155

00:07:25,111 --> 00:07:29,115

WHAT INTERESTED ME ABOUT NASA?
IN 1969,

156

00:07:29,215 --> 00:07:33,386

WHEN THEY LANDED ON THE MOON,
I WAS IN 5TH OR 6TH GRADE,

157

00:07:33,486 --> 00:07:35,521

AND I DECIDED
I WANTED TO WORK AT NASA,

158

00:07:35,621 --> 00:07:39,091

EVERYONE TOLD ME
I HAD TO BE AN ENGINEER

159

00:07:39,192 --> 00:07:40,760

AND DEDICATE YOURSELF

160

00:07:40,860 --> 00:07:46,232

TO MECHANICAL STRUCTURE,

161

00:07:46,332 --> 00:07:48,167

WHICH IS

WHAT NASA NEEDED THE MOST.

162

00:07:48,267 --> 00:07:50,770

AND THEN I STARTED LOOKING
FOR A SCHOOL.

163

00:07:50,870 --> 00:07:52,405

I WENT TO CROEM,

164

00:07:52,505 --> 00:07:54,707

I STUDIED AT CROEM
IN PUERTO RICO,

165

00:07:54,807 --> 00:07:59,011

WHICH FOCUSES
ON SCIENCE AND MATH.

166

00:07:59,111 --> 00:08:01,013

I GRADUATED FROM SCHOOL,

167

00:08:01,113 --> 00:08:05,451

AND I RECEIVED
NASA'S OFFER IN HOUSTON.

168

00:08:05,551 --> 00:08:06,953

THEY WERE ALREADY
STARTING WORKING

169

00:08:07,053 --> 00:08:09,322

ON THE SPACE SHUTTLE.

170

00:08:09,422 --> 00:08:13,693

AND I STARTED DOING
WHAT I'M DOING NOW:

171

00:08:13,793 --> 00:08:17,096

TESTING, VERIFICATION,

172

00:08:17,196 --> 00:08:19,098

STARTING
WITH THE SPACE SHUTTLE'S

173
00:08:19,198 --> 00:08:20,166
SECOND FLIGHT.

174
00:08:20,266 --> 00:08:23,035
I WAS THE ONE
WHO'D CARRY THE TOOLS

175
00:08:23,135 --> 00:08:26,806
AND WOULD HELP PEOPLE.

176
00:08:26,906 --> 00:08:32,712
AND I REMEMBER
I'D MOVE INSIDE THE SHIP,

177
00:08:32,812 --> 00:08:34,580
BRINGING EQUIPMENT,

178
00:08:34,680 --> 00:08:37,316
AND THEN, I FINISHED
THE SPACE SHUTTLE'S

179
00:08:37,416 --> 00:08:39,752
DEVELOPMENT AND VERIFICATION.

180
00:08:39,852 --> 00:08:41,787
I MOVED TO THE SPACE STATION,

181
00:08:41,888 --> 00:08:44,457
I DID THE SAME THING
FOR 13 YEARS,

182
00:08:44,557 --> 00:08:48,895
TESTING EVERY INTEGRATED MODULE,

183
00:08:48,995 --> 00:08:51,931
AND I GOT HERE, WITH ORION.

184

00:08:52,031 --> 00:08:54,534

SO, MY WHOLE CAREER OF 40 YEARS,

185

00:08:54,634 --> 00:08:57,436

BECAUSE THIS YEAR

IS MY 40TH ANNIVERSARY AT NASA,

186

00:08:57,537 --> 00:09:02,975

HAS BEEN ABOUT TESTING THE SHIPS

BEFORE THEY TAKE OFF,

187

00:09:03,075 --> 00:09:08,514

TO MAKE SURE THE DESIGN'S

REQUISITES HAVE BEEN MET.

188

00:09:08,614 --> 00:09:11,684

IT'S BEEN AN AMAZING CAREER.

- AMAZING.

189

00:09:11,784 --> 00:09:13,586

- YEAH.

- INCREDIBLE,

190

00:09:13,686 --> 00:09:14,654

REALLY INCREDIBLE.

191

00:09:14,754 --> 00:09:19,292

- I SAY I'M BEING PAID

TO HAVE FUN,

192

00:09:19,392 --> 00:09:20,927

TO ENJOY THE MOMENT.

193

00:09:21,027 --> 00:09:22,862

- THAT'S GREAT, RAFAEL.

AND WHO WOULD'VE THOUGHT?

194

00:09:22,962 --> 00:09:25,798

WHEN YOU STARTED OUT,
IT WAS APOLLO,

195

00:09:25,898 --> 00:09:31,904

AND NOW,
YOUR CONTRIBUTION TO THE FUTURE

196

00:09:32,004 --> 00:09:32,972

IS ARTEMIS.

197

00:09:33,072 --> 00:09:34,373

- YEAH.
- AMAZING.

198

00:09:34,473 --> 00:09:36,676

- MY BASIS,

199

00:09:36,776 --> 00:09:38,578

THE PEOPLE WHO TAUGHT ME
HOW TO WORK

200

00:09:38,678 --> 00:09:39,779

WHERE FROM...
- APOLLO.

201

00:09:39,879 --> 00:09:41,347

- FROM THE APOLLO PROGRAM.

202

00:09:41,447 --> 00:09:42,381

AND NOW,

203

00:09:42,481 --> 00:09:44,750

ONE OF THE THINGS
I'M TRYING TO DO

204

00:09:44,850 --> 00:09:47,053

IS FORM A GROUP OF ENGINEERS

205

00:09:47,153 --> 00:09:50,089

THAT ARE STARTING OUT
TO PASS DOWN MY KNOWLEDGE,

206

00:09:50,189 --> 00:09:51,357
IF THERE'S ANY,

207

00:09:51,457 --> 00:09:52,792
FOR THE NEW GENERATION,

208

00:09:52,892 --> 00:09:54,393
WHICH IS CALLED
"THE ARTEMIS GENERATION."

209

00:09:54,493 --> 00:09:55,695
- ARTEMIS, EXACTLY.

210

00:09:55,795 --> 00:09:57,830
THAT'S GREAT, EXCELLENT.

211

00:09:57,930 --> 00:10:00,900
THANK YOU
FOR YOUR CONTRIBUTIONS TO NASA,

212

00:10:01,000 --> 00:10:02,335
FOR YOUR CONTRIBUTION

213

00:10:02,435 --> 00:10:04,870
TO THE DEVELOPMENT
OF SPACE TECHNOLOGIES.

214

00:10:04,971 --> 00:10:07,373
IT'S AMAZING,
I'M VERY PROUD OF YOU,

215

00:10:07,473 --> 00:10:08,541
VERY PROUD OF YOU.

216

00:10:11,544 --> 00:10:13,946
IF YOU HAD THE CHANCE

TO STAR AGAIN,

217

00:10:14,046 --> 00:10:17,516

WOULD YOU CHANGE
YOU CAREER PATH?

218

00:10:17,617 --> 00:10:19,251

- NO.

- NO.

219

00:10:19,352 --> 00:10:21,587

- NO?

- ABSOLUTELY NOT.

220

00:10:21,687 --> 00:10:25,691

WORKING AT NASA, AS RAFAEL SAID,

221

00:10:25,791 --> 00:10:27,026

IT'S A BLESSING,

222

00:10:27,126 --> 00:10:29,962

AND I WOULDN'T CHANGE
ABSOLUTELY ANYTHING.

223

00:10:34,734 --> 00:10:35,868

MY EXPERIENCE HERE, AT NASA,

224

00:10:35,968 --> 00:10:41,374

IS THAT MOST ENGINEERS,
IF NOT ALL,

225

00:10:41,474 --> 00:10:43,042

THAT WORK AT NASA

226

00:10:43,142 --> 00:10:46,646

FEEL VERY PROUD
OF WHAT THEY DO EVERY DAY.

227

00:10:46,746 --> 00:10:48,581

IT'S A FAMILY ENVIRONMENT,

228

00:10:48,681 --> 00:10:51,384

A PROGRESS ENVIRONMENT

229

00:10:51,484 --> 00:10:54,453

AND, FOR ME,

THIS IS VERY IMPORTANT,

230

00:10:54,553 --> 00:10:56,088

IT'S A LEARNING ENVIRONMENT.

231

00:10:56,188 --> 00:11:00,159

SO, NO, I WOULDN'T CHANGE

ABSOLUTELY ANYTHING.

232

00:11:00,259 --> 00:11:01,193

- SO, WHAT ADVICE

233

00:11:01,293 --> 00:11:03,329

WOULD YOU GIVE

TO STUDENTS TODAY?

234

00:11:03,429 --> 00:11:09,168

TO SOMEONE WHO'S INTERESTED

IN SPACE OR IN AERONAUTICS,

235

00:11:09,268 --> 00:11:12,805

WHAT ADVICE WOULD YOU GIVE THEM?

- THE ONLY ADVICE I'VE GIVEN,

236

00:11:12,905 --> 00:11:15,941

BECAUSE IT'S HAPPENED

TO COLLEAGUES AND FRIENDS,

237

00:11:16,042 --> 00:11:19,478

IS THAT YOU HAVE TO LOVE

WHAT YOU DO.

238

00:11:19,578 --> 00:11:22,314
YOU CAN STUDY,

239

00:11:22,415 --> 00:11:23,916
BECAUSE THAT'S
WHAT PEOPLE WOULD SAY:

240

00:11:24,016 --> 00:11:28,054
"HOW CAN YOU STAY UP STUDYING
UNTIL 3:00 A.M.?"

241

00:11:28,154 --> 00:11:30,322
BECAUSE YOU LOVE WHAT YOU DO.

242

00:11:30,423 --> 00:11:33,025
IF YOU'RE NOT DOING
SOMETHING YOU DON'T LOVE,

243

00:11:33,125 --> 00:11:37,930
YOU WON'T ENJOY IT,
AND IF YOU DON'T LOVE STUDYING,

244

00:11:38,030 --> 00:11:41,267
ENGINEERING OR WHAT WE'RE DOING,

245

00:11:41,367 --> 00:11:44,103
DON'T WASTE YOUR TIME,
BECAUSE YOU'LL NEVER ENJOY IT.

246

00:11:44,203 --> 00:11:50,176
THERE'S PEOPLE
WHO LOVE OTHER CAREERS,

247

00:11:50,276 --> 00:11:54,146
MEDICINE, CAR REPAIRING.

248

00:11:54,246 --> 00:11:55,247
THAT'S WHAT THEY HAVE TO DO,

249

00:11:55,347 --> 00:11:58,250

BECAUSE THAT'S
WHERE THEY'LL EXCEL AT.

250

00:11:58,350 --> 00:12:00,986

THAT IS,
THAT'S WHERE THEY'LL SHOW IT.

251

00:12:01,087 --> 00:12:02,388

DON'T THINK ABOUT MONEY,

252

00:12:02,488 --> 00:12:04,657

DON'T THINK
ABOUT BEING PROUD OF WORKING,

253

00:12:04,757 --> 00:12:05,658

NO.

254

00:12:05,758 --> 00:12:07,526

THINK ABOUT WHAT YOU LOVE,

255

00:12:07,626 --> 00:12:13,599

AND YOU'LL GO FAR
IN THE CAREER PATH YOU CHOOSE.

256

00:12:13,699 --> 00:12:14,633

- GREAT.

257

00:12:14,734 --> 00:12:16,135

DION,
DO YOU WANT TO ADD ANYTHING?

258

00:12:18,437 --> 00:12:20,706

- WHAT I WOULD SAY IS THAT,

259

00:12:20,806 --> 00:12:23,309

IF YOU'RE INTERESTED
IN SCIENCE AND MATH,

260

00:12:23,409 --> 00:12:25,077
AND YOU THINK YOU CAN DO
ONE OF THE THINGS

261
00:12:25,177 --> 00:12:27,046
WE'VE TALKED ABOUT HERE,

262
00:12:27,146 --> 00:12:29,982
ALL OF US WORK
IN DIFFERENT CENTERS,

263
00:12:30,082 --> 00:12:33,385
AND WE FOCUS AND SPECIALIZE
IN DIFFERENT AREAS.

264
00:12:35,020 --> 00:12:36,021
I THINK THAT, IN THIS GROUP,

265
00:12:36,122 --> 00:12:38,157
I'M THE ONLY ONE
WHO'S A LITTLE OFF

266
00:12:38,257 --> 00:12:39,558
COMPARED TO THE REST,
BECAUSE MY BACKGROUND,

267
00:12:39,658 --> 00:12:42,862
MY EDUCATION WASN'T ENGINEERING,

268
00:12:42,962 --> 00:12:47,266
BUT I THINK IT'S IMPORTANT
TO TELL MY STORY,

269
00:12:47,366 --> 00:12:49,435
BECAUSE STUDENTS MUST UNDERSTAND

270
00:12:49,535 --> 00:12:51,937
THAT NASA
DOESN'T ONLY RECRUIT PEOPLE

271
00:12:52,037 --> 00:12:53,973
IN THE ENGINEERING AREA.

272
00:12:54,073 --> 00:12:58,077
NASA ALSO HAS ANOTHER AREA,
WHICH IS THE RESEARCH AREA,

273
00:12:58,177 --> 00:13:02,081
WHERE PEOPLE WITH OTHER TYPES
OF EDUCATION ARE ALSO RECRUITED,

274
00:13:02,181 --> 00:13:05,317
LIKE THE ACCOUNTING AREA
AND THE HUMAN RESOURCES AREA.

275
00:13:05,417 --> 00:13:09,054
SO,
THERE'S A RANGE OF OPPORTUNITIES

276
00:13:09,155 --> 00:13:11,924
WITHIN THIS AGENCY.

277
00:13:12,024 --> 00:13:14,660
FOR THOSE WHO ARE INTERESTED
IN SCIENCE AND MATH,

278
00:13:14,760 --> 00:13:16,495
I'LL TELL YOU THAT ALL OF US

279
00:13:16,595 --> 00:13:19,632
USE ALL KINDS
OF MATHEMATICS AND SCIENCES.

280
00:13:19,732 --> 00:13:23,769
A LOT OF THOSE WHERE PEOPLE
WHO HAD GOOD GRADES,

281
00:13:23,869 --> 00:13:26,272
OTHERS HAD TO WORK

A LITTLE HARDER,

282

00:13:26,372 --> 00:13:28,174

BUT IF THAT'S TRULY
YOUR INTEREST

283

00:13:28,274 --> 00:13:30,910

AND IT'S WHAT YOU WANT TO DO,
ALL OF US DID IT,

284

00:13:31,010 --> 00:13:33,646

ALL OF US CAME
FROM HISPANIC BACKGROUNDS

285

00:13:33,746 --> 00:13:35,481

FROM DIFFERENT AREAS,

286

00:13:35,581 --> 00:13:37,116

AND WE'VE ARRIVED HERE,

287

00:13:37,216 --> 00:13:40,052

WE'RE INVOLVED
IN PROGRAMS AND PROJECTS

288

00:13:40,152 --> 00:13:43,422

THAT ARE IMPORTANT
TO THE AGENCY.

289

00:13:43,522 --> 00:13:45,558

SO, JUST LIKE WE DID IT,

290

00:13:45,658 --> 00:13:47,193

ALL STUDENTS OUT THERE
CAN DO IT, TOO,

291

00:13:47,293 --> 00:13:49,929

WITH DETERMINATION
AND DEDICATION.

292

00:13:50,029 --> 00:13:53,499
- YES, THERE'S SOMETHING
I WANT TO HIGHLIGHT

293
00:13:53,599 --> 00:13:55,367
ABOUT YOUR ANSWER,

294
00:13:55,467 --> 00:13:57,837
WHICH IS THE FACT
THAT NASA RECRUITS

295
00:13:57,937 --> 00:13:59,638
MORE THAN JUST ENGINEERS
AND SCIENTISTS.

296
00:13:59,738 --> 00:14:04,376
WE ALSO NEED LAWYERS,
BUSINESS MANAGERS

297
00:14:04,476 --> 00:14:05,978
AND SO ON,

298
00:14:06,078 --> 00:14:09,615
ANY KIND OF FIELD
AS ANY INDUSTRY.

299
00:14:09,715 --> 00:14:14,386
WE NEED ALL KINDS OF THINGS
TO CARRY OUT THE MISSIONS

300
00:14:14,486 --> 00:14:16,255
THAT ARE ASSIGNED TO US.

301
00:14:16,355 --> 00:14:17,623
VICENTE, DO YOU HAVE

302
00:14:17,723 --> 00:14:21,427
ANY OTHER PIECE OF ADVICE
FOR STUDENTS?

303

00:14:21,527 --> 00:14:22,561

- SURE.

304

00:14:22,661 --> 00:14:25,598

PERSISTENCE,
IT'S VERY IMPORTANT.

305

00:14:27,666 --> 00:14:29,768

SOMETIMES I REMEMBER
ABOUT MY LIFE,

306

00:14:29,869 --> 00:14:32,004

AND I WAS A BOY IN GUAYAQUIL,

307

00:14:32,104 --> 00:14:35,507

PLAYING IN THE STREETS
WITH MY FRIENDS.

308

00:14:35,608 --> 00:14:38,477

AND NOW, I'M HERE, AT NASA.

309

00:14:38,577 --> 00:14:41,480

IT'S SOMETHING
THAT MAKES ME THINK:

310

00:14:41,580 --> 00:14:43,349

"WOW, IT'S INCREDIBLE."

311

00:14:43,449 --> 00:14:45,684

BUT ALL OF THAT IS PERSISTENCE.

312

00:14:45,784 --> 00:14:47,753

DEDICATION, PERSISTENCE.

313

00:14:47,853 --> 00:14:52,157

AND, UP TO CERTAIN POINT,
DON'T WORRY ABOUT GRADES

314

00:14:52,258 --> 00:14:54,426
OR ABOUT THE BAD MOMENTS
YOU GO THROUGH

315
00:14:54,526 --> 00:14:55,961
IN COLLEGE AND SCHOOL,

316
00:14:56,061 --> 00:15:00,666
BECAUSE, IN GENERAL,
YOU HAVE TO BE A GOOD STUDENT,

317
00:15:00,766 --> 00:15:02,334
BUT, IN THE REAL WORLD,

318
00:15:02,434 --> 00:15:07,640
WHAT MATTERS IS THE PERSISTENCE
IN A PROJECT,

319
00:15:07,740 --> 00:15:08,774
THE ENTHUSIASM
YOU HAVE TO WORK

320
00:15:08,874 --> 00:15:10,309
AND, AS RAFAEL SAID,

321
00:15:10,409 --> 00:15:12,378
THE LOVE YOU FEEL FOR YOUR JOB.

322
00:15:12,478 --> 00:15:15,080
SO, AS DION SAID,

323
00:15:15,180 --> 00:15:19,418
IF WE, WHO CAME FROM COUNTRIES
THAT ARE UNDERDEVELOPED

324
00:15:19,518 --> 00:15:22,554
TO A CERTAIN DEGREE, ARE HERE,

325
00:15:22,655 --> 00:15:26,191

REPRESENTING
THOSE COUNTRIES AT NASA,

326

00:15:26,292 --> 00:15:28,260

I THINK EVERYONE CAN MAKE IT.

327

00:15:28,360 --> 00:15:29,762

- DETERMINATION AND DEDICATION,
RIGHT?

328

00:15:29,862 --> 00:15:31,297

- RIGHT.
- DETERMINATION AND DEDICATION,