1
00:00:03,949 --> 00:00:08,780
>>I'm Emily Glover, I'm a Senior at Georgia
Tech, and I'm a Pathways Intern at NASA Armstrong.

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00:00:08,780 --> 00:00:13,740
This summer I'm working on heat shield research,
specifically measuring the ultraviolet part

3
00:00:13,740 --> 00:00:17,410
on the heat shield, so that we can make it
less heavy for future flights.

4
00:00:17,410 --> 00:00:22,120
The internship program at NASA Armstrong focuses
on inspiring the next generation.

5
00:00:22,120 --> 00:00:26,029
The projects we work on are important, but
at the end of the day it's mostly about making

6
00:00:26,029 --> 00:00:28,259
us into the best engineers that we can be.

7
00:00:28,259 --> 00:00:32,160
>>I'm Jordan Conner, I'm a Senior at Embry-Riddle
Aeronautical University, and I'm a Flight

8
00:00:32,160 --> 00:00:36,140
Test Operations Engineering intern here at
NASA Armstrong Flight Research Center.

9
00:00:36,140 --> 00:00:40,210
I'm working on the Unmanned Aircraft Systems
Integration into the National Air Space System

10
00:00:40,210 --> 00:00:41,210
project.

11
00:00:41,210 --> 00:00:44,660

We're trying to integrate small UAS into the
human piloted airspace.

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00:00:44,660 --> 00:00:48,980
And to do this, we're doing flight tests where
we fly a manned aircraft towards this one

13
00:00:48,980 --> 00:00:52,860
and make sure that detect and avoid sensors
are working, so that there is no midair collisions.

14
00:00:52,860 --> 00:00:57,170
What I do during these flights tests, I'm
in the control room monitoring everything,

15
00:00:57,170 --> 00:01:00,940
making sure the autopilot is working correctly,
the altitudes are correct, the flight plans

16
00:01:00,940 --> 00:01:02,260
are as we inputted them.

17
00:01:02,260 --> 00:01:07,350
The advice I'd give to someone wanting to
intern here at NASA would be to get good grades,

18
00:01:07,350 --> 00:01:12,040
work hard in school, that's really important,
however the most important thing is passion,

19
00:01:12,040 --> 00:01:16,020
drive, and people skills, because you'll be
using that a lot, and it doesn't matter what

20
00:01:16,020 --> 00:01:19,840
your grades are, when you get into the work
place it's about your people skills and how

21
00:01:19,840 --> 00:01:22,000
you can work in a team.

22
00:02:38,209 --> 00:02:42,090
>>My name is Sarah Estep and I am going to be
a Senior at Morehead State University, and

23
00:02:42,090 --> 00:02:46,670
I'm majoring in Space Systems Engineering,
and I am an intern here at NASA's Armstrong

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00:02:46,670 --> 00:02:47,769
Flight Research Center.

25
00:02:47,769 --> 00:02:54,129
So I am an intern on the Mars Glider Swarm/PRANDTL-M
projects and our goal is to be able to release

26
00:02:54,129 --> 00:02:58,019
a swarm of gliders in the Martian atmosphere
to do atmospheric sensing.

27
00:02:58,019 --> 00:03:01,560
So to be able to test that, this summer, we
wanted to be able to release multiple gliders

28
00:03:01,560 --> 00:03:06,579
from a weather balloon, and so, specifically
I'm making the release system that's going

29
00:03:06,579 --> 00:03:09,060
to hold the gliders and release them here.

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00:03:09,060 --> 00:03:12,849
So I've got to help a lot with laying out
the actual molds and fabricating my gondola,

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00:03:12,849 --> 00:03:19,329
so I was able to help with the epoxy and spread
it out, help wrap the carbon fiber around

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00:03:19,329 --> 00:03:22,950
the mold, I got to do some sanding, some soldering,
they've really let me help with every step

33
00:03:22,950 --> 00:03:26,700
of the process and really helped walk me through
it, so I've learned a lot about what goes

34
00:03:26,700 --> 00:03:28,590
into actually making something here.

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00:03:28,590 --> 00:03:32,560
>>My name is Loren Newton, I'm going to be a
first year Master's student at Stanford University,

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00:03:32,560 --> 00:03:36,670
studying aeronautics and astronautics, and
I am a Pathways Co-op Intern in the Operations

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00:03:36,670 --> 00:03:38,480
Engineering Branch here at NASA Armstrong.

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00:03:38,480 --> 00:03:43,010
I'm working on the Life Support System for
the X-59 Low-Boom Flight Demonstrator, essentially

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00:03:43,010 --> 00:03:47,609
the X-59 seeks to demonstrate quiet supersonic
flight without those loud sonic booms that

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00:03:47,609 --> 00:03:50,690
have made overland supersonic flight infeasible
in the past.

41
00:03:50,690 --> 00:03:54,510
The life-support system revolves around making
sure that we can get oxygen to sustain the

42
00:03:54,510 --> 00:04:00,310
pilot at the inhospitable altitudes we'll

be flying at, up to 60,000 feet, both in the

43
00:04:00,310 --> 00:04:04,090
aircraft, and God-forbid if the pilot should
have to eject and descend to the ground.

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00:04:04,090 --> 00:04:08,859
My responsibilities include getting the system
designed and tested, and this includes both

45
00:04:08,859 --> 00:04:12,840
the mechanical design of several of the components
in the system, as well as the logistics of

46
00:04:12,840 --> 00:04:17,290
getting ready to send it over to Texas for
pressure-chamber qualification testing.

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00:04:17,290 --> 00:04:21,459
My future plans, for the short-term, are to
do a good job in whatever role I may be assigned

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00:04:21,459 --> 00:04:26,160
to next, I aim to complete my graduate studies
at Stanford, and then continue to work in

49
00:04:26,160 --> 00:04:29,710
flight test engineering, it's something I've
wanted to work in ever since I was a kid,