



1  
00:00:04,660 --> 00:00:12,980  
(Music)

2  
00:00:12,980 --> 00:00:15,760  
The PRANDTL Interns have been working hard  
on their projects.

3  
00:00:16,680 --> 00:00:21,600  
Whether it's on our newest aircraft PRANDTL-3, creating an autopilot for PRANDTL-2

4  
00:00:21,600 --> 00:00:23,420  
or analyzing data from flight test's.

5  
00:00:23,420 --> 00:00:25,380  
We all have been putting in a lot of effort

6  
00:00:25,380 --> 00:00:26,980  
to achieve our goals for this summer.

7  
00:00:28,480 --> 00:00:31,220  
Many of us are new to aerodynamics in general

8  
00:00:31,260 --> 00:00:35,660  
so having the ability to gain hands on experience  
and learn the trade along side others students

9  
00:00:35,860 --> 00:00:38,280  
is a spectacular opportunity.

10  
00:00:40,060 --> 00:00:44,940  
The PRANDTL-D project has come along way since it was first established in 2012.

11  
00:00:45,200 --> 00:00:48,880  
The fleet of 4 gliders continues to grow with each new group of interns.

12  
00:00:48,920 --> 00:00:53,040  
All offering new ideas in technology to be implemented into the program.

13

00:00:55,040 --> 00:00:57,780

"So later on you'll go back through the data..."

14

00:00:58,970 --> 00:01:02,060

As far as that go's this black line behind you here, that's our deadline.

15

00:01:02,070 --> 00:01:05,000

Nobody go's across that line unless they are directly involved with the flight.

16

00:01:05,220 --> 00:01:08,220

So if you want to watch... cool, spread out along the line.

17

00:01:30,000 --> 00:01:10,200

(Music)

18

00:02:24,120 --> 00:02:27,260

Up until now our gliders have been completely human piloted

19

00:02:27,260 --> 00:02:29,780

including the doublets performed for data collection.

20

00:02:30,100 --> 00:02:33,720

So its exciting for us to be designing something new for the project.

21

00:02:33,960 --> 00:02:37,380

The autopilot will eventually be performing a maneuver called "The Rumble"

22

00:02:37,380 --> 00:02:41,440

which will excite all of the control surfaces at once in place of our pilot.

23

00:02:42,100 --> 00:02:43,000

"Release"

24

00:02:47,480 --> 00:02:47,980

“Alright”

25

00:02:50,060 --> 00:02:52,260

“Is what exactly what it was supposed to be.”

26

00:02:54,700 --> 00:02:58,420

My favorite moment for this summer was probably launching the PRANDTL-2.

27

00:02:58,800 --> 00:03:01,300

Umm, just seeing it take off.

28

00:03:02,040 --> 00:03:04,500

“3,2,1 Release”

29

00:03:12,660 --> 00:03:13,320

“It’s High”

30

00:03:17,500 --> 00:03:19,260

This summer I worked on the PRANDTL-3 Team.

31

00:03:19,320 --> 00:03:24,330

I think the biggest accomplishment here is just being here and being apart of

32

00:03:24,330 --> 00:03:27,490

the unique research that only happens at NASA Armstrong.

33

00:03:27,500 --> 00:03:30,300

(Music)

34

00:03:53,700 --> 00:03:56,300

My favorite memory here at NASA would have to be

35

00:03:56,300 --> 00:03:59,200

meeting all of the other interns on the first day.

36

00:04:00,060 --> 00:04:01,760

My favorite memory would have to be

37

00:04:01,840 --> 00:04:04,100

taking the tour of NASA Armstrong.

38

00:04:04,460 --> 00:04:09,300

It was just really cool seeing all of the fascinating research being done here at the center.

39

00:04:09,680 --> 00:04:11,160

This summer I worked on PRANDTL-3.

40

00:04:11,600 --> 00:04:13,820

Our biggest accomplishment this year as a team was

41

00:04:13,820 --> 00:04:18,420

going from fabrication to flying within a 12 week period for PRANDTL-3.

42

00:04:19,440 --> 00:04:21,540

This summer I was apart of the PRANDTL-2 team.

43

00:04:21,600 --> 00:04:24,940

I specifically worked on formation flight of birds

44

00:04:25,000 --> 00:04:27,560

and how it relates to the PRANDTL wing.

45

00:04:27,740 --> 00:04:30,060

As a team our biggest accomplishment was

46

00:04:30,060 --> 00:04:32,360

getting PRANDTL-2 in the air

47

00:04:32,360 --> 00:04:34,360

and getting PRANDTL-3 ready to fly.

48

00:04:38,100 --> 00:04:39,900

I think I'm a lot more prepared for the future now

49

00:04:39,900 --> 00:04:43,600

because I have more of this real world experience.

50

00:04:44,320 --> 00:04:48,320

Actually flying planes, getting data and then analyzing it

51

00:04:48,320 --> 00:04:50,880

and just having the whole in the house thing of

52

00:04:50,920 --> 00:04:53,840

concept design build and then flight.

53

00:05:00,500 --> 00:05:02,480

This internship has taught me so much.

54

00:05:02,620 --> 00:05:05,460

From communicating with other engineers and other interns

55

00:05:05,460 --> 00:05:09,220

to not being afraid of asking questions.

56

00:05:10,800 --> 00:05:13,700

I am a mechanical engineer.

57

00:05:13,700 --> 00:05:15,780

I am from Duke University.

58

00:05:16,720 --> 00:05:20,340

"Yo soy de Puerto Rico" I am from Puerto Rico

59

00:05:20,700 --> 00:05:23,940

We are PRANDTL 2015

60

00:05:26,460 --> 00:05:30,080

This summer would not have been possible without

the help and support from our mentors