



1
00:00:00,000 --> 00:00:15,627
Music full then under VO.

2
00:00:15,662 --> 00:00:17,003
The Marshall Space Flight Center's

3
00:00:17,038 --> 00:00:19,114
experts in Avionics provide

4
00:00:19,149 --> 00:00:20,698
in-depth engineering for the

5
00:00:20,733 --> 00:00:22,683
research, design, development,

6
00:00:22,718 --> 00:00:24,987
fabrication and evaluation

7
00:00:25,022 --> 00:00:27,499
of avionics systems. "Today's

8
00:00:27,534 --> 00:00:28,795
Avionics & Electrical System

9
00:00:28,830 --> 00:00:30,139
architectures are more flexible

10
00:00:30,174 --> 00:00:31,531
and affordable systems, and

11
00:00:31,643 --> 00:00:32,379
Marshall's team embraces these

12
00:00:32,539 --> 00:00:34,698
attributes." Flexibility is

13
00:00:34,733 --> 00:00:36,716

achieved using in-house design

14

00:00:36,751 --> 00:00:38,698

options including integrating

15

00:00:38,733 --> 00:00:39,739

commercial, off the shelf

16

00:00:39,852 --> 00:00:42,475

with custom designed hardware.

17

00:00:42,510 --> 00:00:44,875

Affordability is achieved across

18

00:00:45,116 --> 00:00:47,003

the system lifecycle by design

19

00:00:47,324 --> 00:00:48,907

considerations and early

20

00:00:48,971 --> 00:00:50,763

assessment of System Certification

21

00:00:50,798 --> 00:00:52,892

through "out-year" sustainment

22

00:00:52,927 --> 00:00:55,659

and operational use. Designing

23

00:00:55,694 --> 00:00:57,131

a system that economically

24

00:00:57,166 --> 00:00:58,987

accommodates future change

25

00:00:59,022 --> 00:01:01,003

is the challenge; NASA's team

26

00:01:01,038 --> 00:01:03,531

has solutions to offer. Some

27

00:01:03,566 --> 00:01:05,275

of the Specialty services NASA

28

00:01:05,310 --> 00:01:07,402

has to offer include Flight

29

00:01:07,437 --> 00:01:09,178

Robotics Lab hardware

30

00:01:09,213 --> 00:01:11,418

simulations, power systems testing,

31

00:01:11,453 --> 00:01:14,683

Field Programmable Gate Array

32

00:01:14,718 --> 00:01:16,395

(FPGA) design and programming.

33

00:01:16,430 --> 00:01:18,490

To design, build and operate

34

00:01:18,525 --> 00:01:20,251

hardware for the harsh environment of

35

00:01:20,286 --> 00:01:23,083

space you need robust electronic

36

00:01:23,118 --> 00:01:24,731

design, fabrication, and packaging. To

37

00:01:24,766 --> 00:01:27,675

complete the process you need

38

00:01:27,710 --> 00:01:29,755

Electromechanical Parts Engineering,

39

00:01:29,790 --> 00:01:31,740

Obsolescence Management and Part

40

00:01:31,775 --> 00:01:34,619

Failure Analysis. Marshal also performs

41

00:01:34,654 --> 00:01:37,707

electrical environments testing. Numerous

42

00:01:37,742 --> 00:01:40,507

Avionics resources are available

43

00:01:40,542 --> 00:01:42,411

to perform Development, Test

44

00:01:42,446 --> 00:01:44,651

Evaluation and System Certification of

45

00:01:44,686 --> 00:01:47,963

critical systems. "We have unique

46

00:01:47,998 --> 00:01:49,483

capabilities to design and test robotic

47

00:01:49,518 --> 00:01:52,571

applications for both science and

48

00:01:52,606 --> 00:01:55,163

human exploration missions" Marshall's

49

00:01:55,198 --> 00:01:56,715

Avionics & Electrical Systems

50

00:01:56,750 --> 00:01:59,243

diverse experience comes from a broad

51
00:01:59,278 --> 00:02:02,171
range of projects including; Instruments

52
00:02:02,206 --> 00:02:05,707
and Experiments Payloads... Free

53
00:02:05,742 --> 00:02:09,580
Flyers... Launch Vehicles... And the

54
00:02:09,615 --> 00:02:13,723
International Space Station. Marshall's

55
00:02:13,758 --> 00:02:15,851
Avionics and Electrical Team has

56
00:02:15,886 --> 00:02:19,178
proven past performance. This team

57
00:02:19,213 --> 00:02:20,986
has gained valuable knowledge

58
00:02:21,021 --> 00:02:22,507
from its unique position on a broad

59
00:02:22,542 --> 00:02:25,339
range of developments. Combining your

60
00:02:25,374 --> 00:02:27,451
team's strengths with the Marshall

61
00:02:27,486 --> 00:02:28,262
team's knowledge,

62
00:02:28,263 --> 00:02:29,450
skills, and capabilities

63
00:02:29,485 --> 00:02:31,243

builds for a strong development