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00:00:11,580 --> 00:00:12,880

My name is Charles Doxley.

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00:00:12,880 --> 00:00:16,330

I work at the NASA Glenn Research Center for the avionics division.

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00:00:16,330 --> 00:00:21,250

I'm an electronics engineer, and I work for the compatibility test sets project.

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00:00:21,250 --> 00:00:26,250

I have a Bachelor's Degree in Mathematics from Albany State University in Albany, Georgia

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00:00:26,250 --> 00:00:30,920

and a Master's Degree from Tuskegee University in Tuskegee, Alabama.

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00:00:30,920 --> 00:00:35,510

Compatibility test sets project is the next generation compatibility test set which is

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00:00:35,510 --> 00:00:42,870

replacing the compatibility test sets van, and what we do is we test future space radios

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00:00:42,870 --> 00:00:47,690

to make sure they are compatible with the TDRSS tracking and data relay satellite system.

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00:00:47,690 --> 00:00:50,269

So they don't cause damage when you connect to them.

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00:00:50,269 --> 00:00:55,120

The opportunity to work at NASA seemed so exciting to me that I actually held off the

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00:00:55,120 --> 00:01:01,290

completion of my thesis and came to NASA Glenn Research Center and worked three co-op rotations

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00:01:01,290 --> 00:01:05,619

consecutively just so I can have an opportunity at a job.

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00:01:05,619 --> 00:01:11,300

And once I was done with my co-ops, I was hired on directly after I went back to Tuskegee

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00:01:11,300 --> 00:01:14,120

for two weeks and presented my master's thesis.

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00:01:14,120 --> 00:01:17,440

I think Black History month is extremely important.

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00:01:17,440 --> 00:01:21,100

One of the most important things about the current state of Black History Month is just

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00:01:21,100 --> 00:01:25,740

learning about our heritage and what we've come from and the struggles that African-Americans

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00:01:25,740 --> 00:01:29,280

have been through to get to the point that they are today.

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00:01:29,280 --> 00:01:32,920

To now understand that anything is possible.

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00:01:32,920 --> 00:01:36,440

We see African-American presidents—President, Barack Obama.

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00:01:36,440 --> 00:01:39,920

We see African-American Superbowl champions, Russell Wilson.

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00:01:39,920 --> 00:01:45,280

So now, the goal in the African-American community, and about just black history in general, should

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00:01:45,280 --> 00:01:51,550

be understanding that anything is possible, but how can we make things more probable.

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00:01:51,550 --> 00:01:57,150

We need more youth involved in STEM in general—science, technology, engineering, and mathematics—whether

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00:01:57,150 --> 00:02:01,830

they're black, white, Asian, Latino, Native American.

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00:02:01,830 --> 00:02:05,050

Currently, in America we're in the technology age.

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00:02:05,050 --> 00:02:09,789

So, if we want to continue to grow and be one of the leading nations in the world, we

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00:02:09,789 --> 00:02:12,620

have to invest in STEM and our young people in STEM.