

## DYNAMIC RPS

1. Heritage System

Power Output

Efficiency and Reliability

2. To Verify Performance

3. We Reduce our Effort

4. Way of Lower Quality



1  
00:00:00,000 --> 00:00:03,003

[Music]

2  
00:00:03,003 --> 00:00:04,004

I have a creative side and

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00:00:04,004 --> 00:00:07,006

I have a, I'll say, more STEM-focused side.

4  
00:00:07,006 --> 00:00:10,090

and I was always torn between did I want to pursue

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00:00:10,090 --> 00:00:14,178

my passions in artwork and storytelling

6  
00:00:14,178 --> 00:00:18,000

or if I wanted to pursue this career in engineering.

7  
00:00:18,138 --> 00:00:22,251

And of course, we know which way I ended up going

8  
00:00:22,285 --> 00:00:24,019

MEET

9  
00:00:24,053 --> 00:00:24,954

WAYNE

10  
00:00:25,020 --> 00:00:27,670

WONG

11  
00:00:28,023 --> 00:00:30,691

As supervisor of the thermal energy conversion branch,

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00:00:30,725 --> 00:00:34,644

I lead a team of very talented scientists and engineers

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00:00:35,139 --> 00:00:38,698

to develop the next generation power system for NASA.

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00:00:38,698 --> 00:00:40,032

These are some of the most challenging missions

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00:00:40,065 --> 00:00:43,001

where solar energy is not practical.

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00:00:43,034 --> 00:00:46,003

For those missions,  
we rely on nuclear power

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00:00:46,037 --> 00:00:50,070

either radioisotope power or fission reactor power.

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00:00:50,114 --> 00:00:53,676

So my branch is working on the technologies that convert the heat

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00:00:53,710 --> 00:00:56,731

from those nuclear sources into useful electrical power.

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00:00:56,901 --> 00:01:00,495

The application for the technologies that we're working on typically

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00:01:00,495 --> 00:01:05,538

are for those missions where solar energy isn't practical or isn't feasible.

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00:01:05,710 --> 00:01:09,897

I like to refer to them as those dark, dusty or distant environments.

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00:01:09,897 --> 00:01:10,955

What are some of your hobbies?

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00:01:10,955 --> 00:01:14,480

I enjoy certainly family and I also dabble in filmmaking.

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00:01:14,526 --> 00:01:19,110

I've been in a number of short films, I've written screenplays,

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00:01:19,365 --> 00:01:22,173

and I've also done a little bit of acting on the side myself.

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00:01:22,232 --> 00:01:26,219

I'm a huge fan of action films myself when I watch it.

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00:01:26,219 --> 00:01:31,222

Those tend to be the types of stories that I enjoy making and creating.

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00:01:31,272 --> 00:01:35,620

I also enjoy volunteering for the community that I grew up in

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00:01:35,767 --> 00:01:37,133

in AsiaTown in Cleveland.

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00:01:37,133 --> 00:01:41,066

I'm also part of an organization that puts on the Cleveland Asian Festival.

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00:01:41,080 --> 00:01:42,384

It started in 2010.

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00:01:42,515 --> 00:01:46,297

My wife is one of the co-founders and I've been involved since the beginning.

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00:01:47,018 --> 00:01:51,569

We started the Cleveland Asian Festival to really showcase AsiaTown Cleveland,

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00:01:51,692 --> 00:01:54,810

but we also hold it in the month of May because it's

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00:01:54,858 --> 00:01:58,707

Asian Pacific American Heritage Month, and I perform

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00:01:58,802 --> 00:02:02,000

as part of a dragon dance team as part of our culture and custom.

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00:02:02,483 --> 00:02:05,438

The dragon that we perform with requires

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00:02:05,693 --> 00:02:08,502

nine people inside the dragon to move the dragon around

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00:02:08,502 --> 00:02:09,503

There's also a drummer.

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00:02:09,781 --> 00:02:11,094

There's a wisdom pearl.

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00:02:11,189 --> 00:02:12,190

There's a flag.

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00:02:12,439 --> 00:02:13,957

So it's a it's a large crew.

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00:02:14,143 --> 00:02:15,062

It's a lot of fun.

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00:02:15,107 --> 00:02:16,247

What advice do you have for the next generation  
of STEM students?

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00:02:16,275 --> 00:02:20,634

Our two rovers on Mars that happen to be radioisotope fueled

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00:02:20,634 --> 00:02:23,335

is very aptly named: Curiosity

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00:02:23,335 --> 00:02:26,170

and Perseverance. For those young people,

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00:02:26,216 --> 00:02:28,185

be curious.

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00:02:28,185 --> 00:02:31,020

Wonder why do things work?

How do they work?

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00:02:31,020 --> 00:02:32,267

Find out. Learn.

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00:02:33,021 --> 00:02:37,012

But being in a STEM field is not easy,  
and it does require that perseverance.

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00:02:37,024 --> 00:02:38,725

Something on your Bucket List

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00:02:38,725 --> 00:02:42,000

I was born in Hong Kong, but I've not been back to Hong Kong since.

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00:02:42,028 --> 00:02:44,969

To go back to Asia and be able

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00:02:45,031 --> 00:02:47,920

to experience and enjoy those authentic meals,