

Navajo robotics team heads to international competition

August 7 2018, by Lindsay Whitehurst



This March 3, 2018 photo provided by Heather Anderson shows, from left, Navajo Mountain High School students Nahida Smith, Myra King and Breana Bitsinne compete in a Utah regional robotics competition in West Valley City, Utah. The team from a remote town in southern Utah is now headed to an international robotics competition Aug. 14 in Mexico City, Mexico. They were invited to compete in the First Global Challenge, which will draw teams from 190 countries to create robots capable of feeding power plants and building environmentally efficient transmission networks. (Heather Anderson via AP)



A team of Navajo high school students from a remote town in southern Utah is building a robot to represent North America in an international robotics competition.

The teenagers have worked all summer on the project, scheduling meetings between long drives to jobs far from the red rock and sage country of Navajo Mountain, where there is little paid work, said teacher Heather Anderson.

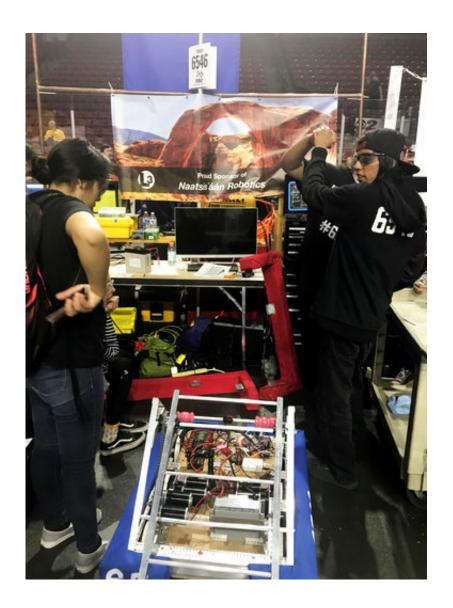
The team was specially invited to compete in the First Global Challenge that starts Aug. 14 in Mexico City. Teams from more than 190 countries will create robots for energy generation, especially renewable power. Teams hail from countries ranging from Congo to Ukraine, and also include separate teams representing specifically the U.S., Canada and Mexico.

Team Naatsis'aan, a Navajo name that translates to Navajo Mountain, has been competing for two years in Utah and ranks among the best in the state at that level, said Chelsey Short, the regional director for FIRST Robotics. They got started after an Australian team reached out online and supportive coaches kept it going, but sustaining the program at a high school with a total of 30 students has been challenging.

"It's not like they had those technical skills, they decided they wanted to start a team and just kind of went for it, and they found mentors along the way," Short said.

Even getting food for team meetings can be a challenge, since the nearest restaurants and grocery stores are 90 minutes away from the Navajo Mountain community, where a number of homes don't have running water, Anderson said. When they ran out of specialized screws, they had to wait two weeks to receive more in the mail.





This March 3, 2018 photo provided by Heather Anderson shows from left, Navajo Mountain High School students Nahida Smith and Cuay Bitsinnie compete in a Utah regional robotics competition in West Valley City, Utah. The team from a remote town in southern Utah is now headed to an international robotics competition Aug. 14 in Mexico City, Mexico. They were invited to compete in the First Global Challenge, which will draw teams from 190 countries to create robots capable of feeding power plants and building environmentally efficient transmission networks. (Heather Anderson via AP)



"It was frustrating because of the time it wasted before Mexico," said team member Breana Bitsinnie, 18. They worked around it by focusing on other tasks while they were waiting.

Team member Jason Slender, 16, said he grew up repairing laptops and phones, skills that came in handy when it comes to building robots. "The best part was brainstorming how we should design the robot, and managing to all agree on one," he said Tuesday. He's taking his first plane ride for the event.

Each of the teams heading to Mexico City is building a robot capable of feeding power plants to scale and an efficient transmission network. The Navajo team will have to work in alliances with other teams to score points in the challenge organized by the robotics nonprofit First Global. Since they speak different languages, they'll use a system of hand gestures to communicate, Bitsinnie said.

The team from the Navajo Nation got a kit of supplies to build their robots in early June, and they're programming the machines to perform tasks like moving boxes to specific spots on a playing field and turning a windmill, Anderson said.

For the students, the experience has sparked an interest in computer and programming careers.

"The kids are really patient. They're used to jumping through a lot of different hoops," Anderson said. "That's what's really special about this team; they're really proud of their work."

© 2018 The Associated Press. All rights reserved.

Citation: Navajo robotics team heads to international competition (2018, August 7) retrieved 9 April 2024 from



https://phys.org/news/2018-08-navajo-robotics-team-international-competition.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.