

FORD/MITES Mini-Grants Being Used to Grow STEM Education

North Huron Vex Robotics

Project Goal

The goal is to have an additional 4 VEX EDR robots that can be programmed using the remote controls for live input. This will allow us to have more teams be able to compete in the local REC Foundation robotics competition and enable North Huron to have more students as members. We are trying to get students interested in computer programming and the engineering skills that are involved and encourage them to take interest in STEM careers after school.

Implementation Process

Since we already had the robot components, North Huron ordered the remote controls and necessary components to ensure students are able to wirelessly maneuver their robots in the competition field. The structure of the Robotics and Automation Class has changed so that it is now more focused on constructing, modifying, and programming wireless robots to complete given tasks.

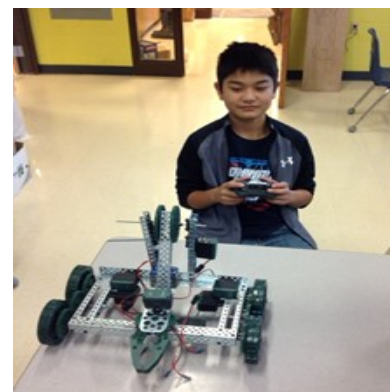
Number of People Served

North Huron has also used funding to purchase 4 IQ (elementary) robot kits that are to be used in the K-5 grade levels. We have over a dozen of the EDR (junior high, high school) robot kits that we use for grades 6-12. We now have controllers for 8 of them, making switch over from class to class much more organized and smooth. Approximately 450 students have exposure to these, plus the sharing of them with other students at events such as the “Robot Round Up” held on 10-11-16 at Laker Schools.



Overall Success

Students are thoroughly enjoying having the ability to control their robots in real time. They are having their own in class competitions trying to make theirs better than their classmates. This gets them to critically think, redesign, and modify their robot as well as their programming to get the desired results.



Robot Roundup Night at Lakers

