

Engineering Team
Project 1



**Outstanding
Award**
SEFMD 2010-11

Title: Let's Go to the Round Up!!!

Developed by/Contact info: Lawrence Harris (rashaneman@yahoo.com)
Chelsea Reed (chelsea1nonly@hotmail.com)
Chanel Wilkerson

Location/School: Northwestern High School
Detroit International Academy
Pershing High School

Grade Level 10th Grade

Design Team Membership: Engineering Design Team

IT/STEM Tools Used: VEX Robot and Easy C

Project Overview: Robots are taking over the world, but humans are still needed to design and program them for specific jobs. The purpose of this project was to determine which type of sensors are best suited for controlling the motion of a VEX Robot to parallel park. Using the components from a VEX Robotics kit a robot was built according to the basic plans given that you can control with a wireless radio transmitter. Three different sensors were then tested to determine which one would be best suited for the parallel park. It was found that the limit-switch was the least reliable while the bumper-switch was the most reliable.