NXT Mystery
Riley Downes
Alex Enriquez
Desert Robotics

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We have many wonders about the NXT's full potential, so we decided to test out every thing we could think of. We will use every sensor, wheel, and motor to test it out to it's fullest potential. We will also make it autonomous; which will be our highest goal.

The touch sensor will assist us in moving around obstacles. Once it touched one touch sensor it will go the other direction. We got the design for the touch sensor which was inspired by the iRobot create. The light sensor will help give the robot an idea of where it is. For example, once the light sensor detects orange from the game board, the robot will know it has passed half of the board. The ultra sonic sensors will alarm the robot of objects coming the robot's way and enable the touch sensors.

The structural part of the robot is very sophisticated in many ways. We have a very strong base which holds the NXT and the sensors. We have built a swivel type mechanism which turns the wheels. We have several sturdy claws built into it as well.

We have noticed over the weeks of tests that the robot can achieve many of the tasks we faced it with. Surprisingly the motors can handle a large amount of weight; and the wheels can actually carry the heavy weight of the robot and go straight, as well as go a reasonable speed. In conclusion we have observed that this robot is a success.

We would like to share our robot with other students.