Robot C Programming Tutorial

By: Matthew Jourden Engineering Program Brighton High School

Tutorial 2: Touch Sensor

- 1. Mount the Touch sensor to the front of your robot
- 2. When using the Touch Sensor there is two values 0 = not pressed and 1 = pressed. Using an If or While statements the programmer can make the robot do conduct different actions based on the inputted data.
- 3. Create a NEW Program
- 4. Sensor Setup Drop down menu allows user to i. Robot > Motors and Sensors > Sensors Tab select the type of sensor that is desired. Motors and Sensors Setup Standard Models Motors Sensors Sensor Index Name Sensor Type Sensor Mode Touch (EV3) Touch Touch • Name Sensor. S2 No Sensor Not Applicable • NOTE: Can use the name or Index within the code S3 No Sensor Not Applicable • Not Applicable **S4** No Sensor
 - ii. Apply > Ok
 - 5. Write the following program

```
task main()
 ь
 7
 8
         while (SensorValue [Touch] == 0)
 9
10
11
           motor (motorB] = 25;
          motor (motorC) = 25;
12
13
14
           if (SensorValue [Touch] == 1)
15
            motor (motorB] = 0;
16
            motor (motorC) = 0;
17
18
19
20
        }
21
```

7. Upload the program and test the touch sensor with a barrier

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Robot C Program 2: Touch Sensor

Write a program that will do the following

- 1. Touch sensor starts the robot going forward (Speed not greater than 25)
- 2. Touch sensor pressed a second time will stop the robot

Show Teacher upon completion