Zainab Hussein

Lab 6 Prelab

3/6/2017

Acceptance Testing Plan

|  |  |  |
| --- | --- | --- |
| **Tests to run** | **Test Implementation** | **Confidence meet spec if passed** |
| Proper loading of program onto lafbot after 10 sec start up | Load program onto lafbot and turning on and off 5 times | If starts up correctly each time, it passes |
| Follow straight black line | Have robot follow black line 5-8 times | If follows without deviation, it passes |
| Test for noise tolerance to ensure small deviations in the intensity of the black line | Vary the ADC threshold value by checking the values result in lafbot remaining in/out of bounds | Lafbot never gets stuck on the track |
| Lafbot completes oval course with a circumference of 190 inches in 90 seconds | Run lafbot 5 times without fail or deviation from course | Lafbot remains under 90 seconds each time, it passes |
| Start lafbot at different locations on the track | Start lafbot at 9 different parts of the track | Lafbot performs correctly at every starting point |