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| TNC Testing Form (REV1) | |
| Leaf on the Tree | I/O Pins |
| Device Under Test (Testing Tree Number): | 1.1.2.3 |
| Date: | 11/1/20 |
| Person(s) Conducting Experiment: | Kobe Keopraseuth, Kaleb Leon, David Cain |
| Signature: |  |
| Experiment Purpose: | The purpose of this experiment is to test to make sure the I/O pins on the microcontroller are functioning to our standard. Working meaning able to read input and output accurately. |
| Experiment Procedure: | We will send a square wave analog signal from our microcontroller by waiting a set number of milliseconds and changing the GPIO pin to output that 1 or 0. This is done on each pin we use in the system. This shows we can output and receive signals correctly on the pins. |
| Equipment Settings / Software Settings (w Revision): | We use the nucleo board with the code shown below to produce the signal.  Then we read the signal using our analog discovery shown on channel 2 in the data points. |
| Testing Diagram / Picture: |  |
| Data Points: |  |
| Pass / Fail: | Pass |
| Interpreted Notes: | The signal being displayed is correct because the delay between transitions is the same as defined in the code. |
| Recommendations for Modifications: | None |