**Project Status Report**

|  |  |
| --- | --- |
| **Project Name** | Detect-O-Bot 1000 |
| **Team Members** | Alan Cranbury, Mark Mahony, Jack Morgan |
| **Report Date** | November 15, 2013 |

**Project Overall Status: Yellow**

The entire project is operational, except for the metal detection system. The metal detection system is inoperable because we do not currently have a way of getting the coil sensor data to the beaglebone for interpretation. The timer channels on the beaglebone are incapable of operating at the several hundred kHz range of the coil sensor circuit.

**Activities – During the Past Week**

|  |  |  |
| --- | --- | --- |
| **Activity** | **Planned Completion Date** | **% Complete** |
| Confirming operation of circuits | Friday, November 1, 2013 | 100 |
| Finish design of op-amp circuits. | Friday, October, 18, 2013 | 100 |
| Get the beaglebone to work with wifi. | Tuesday, October, 15, 2013 | 100 |
| Finish design of coil. | Friday, October, 18, 2013 | 100 |
| Order parts and ask Dave to see what’s available. | Tuesday, October, 15, 2013 | 100 |
| Finish incorporating camera streaming service into joystick software. | Friday, October 18, 2013 | 100 |
| Code to interface with analog pins | Friday, November 15, 2013 | 33 |
| Add code to manipulate IO pins on the beaglebone and manage the motor of the marking ejection system. | Friday, November 08, 2013 | 100 |
| Code to run the marking ejection system motor. | Friday, November 08, 2013 | 100 |
| Build Marking Ejection System | Friday, October 25, 2013 | 100 |
| Testing Marking Ejection System | Friday, November 1, 2013 | 100 |

**Activities Planned – For the Next Week**

|  |  |
| --- | --- |
| **Activity** | **Planned Completion Date** |
| N/A |  |

**Outstanding Issues**

|  |  |  |  |
| --- | --- | --- | --- |
| **Issue** | **Responsibility** | **Date to be Resolved** | **Proposed Resolution** |
| We do not have a way to get the data from the coil sensor into the beagle bone. | All | November 15, 2013 | Acquire an external module that has timer modules capable at operating at several hundred kHz. |

**Changes to Plan**

|  |  |  |
| --- | --- | --- |
| **Change** | **Date of Change** | **Impact to Project** |
|  |  |  |
|  |  |  |