**Project Status Report**

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| **Project Name** | Detect-O-Robot 1000 |
| **Team Members** | Alan Cranbury, Mark Mahony, Jack Morgan |
| **Report Date** | October 18, 2013 |

**Project Overall Status: Yellow**

We finally managed to figure out of control loop code and the robot’s motors operate under closed-loop control. Remote control of the chassis should be possible once the joystick code is ported to the beaglebone. Alan is mostly done his design of the op-amp circuit and sensor setup, Mark is mostly done his design and Jack has not started his design, but has performed research. The unfinished designs should not be too much of an issue heading into next week as the design is usually much shorter than the development and testing. Most of the parts we need are in, we still need to finalize some details. We have a document detailing our ideas for the Marking Ejection System. We also found out how to read the analog pins on the beaglebone.

**Activities – During the Past Week**

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| --- | --- | --- |
| **Activity** | **Planned Completion Date** | **% Complete** |
| Finish control loop tuning. | Wednesday, October, 16, 2013 | 100 |
| Finish design of op-amp circuits. | Friday, October, 18, 2013 | 60 |
| Get the beaglebone to work with wifi. | Tuesday, October, 15, 2013 | 90 |
| Finish design of other sensors and coil. | Friday, October, 18, 2013 | 50 |
| Order parts and ask Dave to see what’s available. | Tuesday, October, 15, 2013 | 60 |
| Finish incorporating camera streaming service into joystick software. | Friday, October 18, 2013 | 0 |
| Begin reading documentation on how to read the analog ports on the beaglebone. | Friday, October 18, 2013 | 100 |
| Pick a design for the Marking Ejection System (MES). Finish rough sketch of the proposed system. | Friday, October 18, 2013 | 100 |

**Activities Planned – For the Next Week**

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| **Activity** | **Planned Completion Date** |
| Finish design of op-amp circuits. | Tuesday, October, 22, 2013 |
| Get the beaglebone to work with wifi. | Tuesday, October, 22, 2013 |
| Finish design of other sensors and coil. | Tuesday, October, 22, 2013 |
| Order parts and ask Dave to see what’s available. | Tuesday, October, 22, 2013 |
| Finish incorporating camera streaming service into joystick software. | Friday, October 18, 2013 |
| Build Sensors | Friday, October 25, 2013 |
| Testing Sensors | Friday, November 1, 2013 |
| Build Marking Ejection System | Friday, October 25, 2013 |
| Testing Marking Ejection System | Friday, November 1, 2013 |

**Outstanding Issues**

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| --- | --- | --- | --- |
| **Issue** | **Responsibility** | **Date to be Resolved** | **Proposed Resolution** |
| Design of sensor systems | All | Tuesday, October, 22, 2013 | Finish designs. |
| Get the beaglebone to work with wifi. | Jack | ? | Jack ordered a powered USB hub, it should be on its way. The powered USB should fix our wifi issues. |
| Finish ordering parts | Mark, Jack | Tuesday, October, 22, 2013 | Finish designs and finalize parts. |

**Changes to Plan**

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| **Change** | **Date of Change** | **Impact to Project** |
| Extend all overdue tasks to Tuesday next week. | October 18, 2013 | Makes the third week much busier. |
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