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| Project Status Report | Overall Status: **On Track** |

# Project Name: Extraterrestrial Robot Explorer and Environmental Logger

October 14, 2016

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| Status Code Legend |  |
| * On Track: Project is on schedule | * High Risk: At risk, with a high risk of going off track |
| * At Risk: Milestones missed but date intact | * Off Track: Date will be missed if action not taken |

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| The project is On Track the week of 10/10/2016 - 10/14/2016, due to the following: | * Raspberry Pi is being prepared for Wi-Fi connection (Using an Ethernet cable, we can ping from laptop to the Pi, but not vice versa) * Joystick control program is modularized and ready for implementation in the Linux Supervisor program * Started implementing threads in the Linux Supervisor with no issues so far * Started working on RS-232 communication between the platform and the Pi |
| Issues: | * Cannot connect the Raspberry Pi to Wi-Fi using Raspian OS[Issue No. 2] * Some delays on the RS-232 milestone due to lack of necessary hardware * Encoders have been pushed back due to time restraints * Didn’t get to PID |
| Milestones accomplished the week of 10/10/2016 - 10/14/2016: | * Begin adjusting supervisory Linux program to work with the selected control method (Joystick) * Investigated the need for threading in the supervisory Linux program, started implementation * Prepare Raspberry Pi for Wi-Fi connection |
| Milestones planned this week, but not achieved with variance: | * Get PID control working on the robot platform (this milestone has been pushed back to October 28) * Initialize RS-232 on the Pi and get communication between it and the platform controller working * Encoder functionality implemented on platform |
| Milestones planned for next week: | * Establish a reliable communication link between the Supervisory control program and the Raspberry over Wi-Fi * Finalize code for the selected control method in the Supervisory control program (including threading) * Begin integration of an environmental sensor onto the board * Finalize RS-232 communication between Raspberry Pi and the platform controller * Catch up delayed primary tasks from previous weeks * Establish RS-232 communication between the Pi and the platform controller * Get encoders finished and integrated * Start PID control |
| Areas/questions for discussion: | 1. Issues with Wi-Fi pinging 2. Have students from previous years had the same issues concerning Wi-Fi connection using Raspian OS? |
| Last week’s issues forwarded to this week: | None |