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Team 19 End-to-End Prototype Document

**Laboratory #6 : End-to-End Prototype**

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***Work Product***

**This document describes the goals and schedule for the end-to-end prototype. This prototype will be focused on establishing a connection between the base station and the robot, and enabling simple robot movements.**

***Document Revision Information***

**Mar 22, 2013 – Goals and Schedule Created**

**Mar 24, 2013 – Schedule Updated**

**Approval Sheet**

**All group members whose names are listed below approve of the document and contributed fairly.**

**Morgan, Laura**

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**Pledge**

**On my honor, as a student, I have neither given nor received unauthorized aid on this assignment.**

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# Prototype Goals

The purpose of this prototype is to show the user that the major components of the robot system will function. This prototype is focused on basic movements of the robot - moving straight and small turns. The main risk of this prototype is integration with our partner group. We

Develop and demonstrate an end-to-end evolutionary prototype to deal with a set of prominent risks. These risks are discussed below.

A fundamental issue is the integration of parts developed by different groups. For this project, such integra- tion is actually pretty trivial. However, our goal is to simulate integration as it occurs with larger projects. In larger projects, integration is a major risk.

Pre-Laboratory Assignment

1. (1)  Work with your partner group to define a goal for implementing a subset of the functionality of your robot system. The purpose is to show the customer that all the major elements of the software system will function. Thus, your demonstration should include all the major pieces — robot motion, telemetry, user interface, debug system, autonomous control, major features such as macro systems — but be a very small piece of each.

# Milestones and Schedule

# Integration Tests

## Preparation

### Test goals

### Test Schedule

### What we expect from group 20

## Realization

### Date and Time

### Goal

### Participants

### Results