

# ECSE-211

## Design Principles and Methods

### Design Beta Demonstration

14 November 2017

The Beta demonstration of your design will take place on Tuesday, November 14, 2017 between noon and 1600. The robots will be tested on the 8 by 8 floor in the small lab.

The goal of the beta demonstration will be, primarily, to provide you (and the clients) feedback on the performance of your robot under conditions which approximate those of the final competition but on a slightly smaller floor. The performance in the beta will both show whether your design has the capabilities it should have at that point in the project timeline and will confirm your presentations at the weekly meetings.

Marks will be awarded for the beta demo and will amount to about 6% of the total for the project.

The details of the beta demo are given below:

The robot will be placed in a corner of the competition floor as designated by the profs or the TA's. It will be turned on after which point, it cannot be touched again until the end of the run.

The server will send the robot the information specified in the Project documents via the wifi link.

The robot will then perform the following functions:

1. Localize
2. Navigate to the zip line
3. Connect to the zip line
4. Cross the zip line and dismount
5. Navigate to a specified location (the opponents flag location)
6. Stop when it arrives at the location.

Each of the above behaviours will be worth one point.

The times of the demos will be organized by signing up through a Doodle poll which will be mailed to all team managers before November 10.

DAL/FF