

## Final Project/Contest Grading

Your Final Project grade is going to be broken down into three parts:

Check Point #1	worth	35%
Check Point #2	worth	35%
Final Contest Day	worth	30%

### Check Point #1: Complete the Can Recycling part of the contest (Must be completed by 6:00PM April 28<sup>th</sup>).

When: You can check off this part of the contest any of these times (or schedule another time before April 28<sup>th</sup>):

- 3:00PM to 6:00PM Tuesday April 21<sup>st</sup>.
- 3:00PM to 6:00PM Thursday April 23<sup>rd</sup>.
- 2:00PM to 5:00PM Monday April 27<sup>th</sup>.
- 3:00PM to 6:00PM Tuesday April 28<sup>th</sup>.

How will you be graded:

30%	Individual	How much effort did we see you putting into the project? Can you work well with the robot on your own? Did you try some “new” ideas on the robot? Creativity.
20%	Group	The robot picks up and drops off the can.
20%	Group	The robot navigates through the course correctly and consistently.
15%	Group	Quality of VB application. Robot is displayed in the VB application. Course outline is displayed.
15%	Group	Quality of entire design. Software and Hardware.

### Check Point #2: Golf ball retrieval and dead reckoning correction (Must be completed by 5:00PM May 6<sup>th</sup>).

When: You can check off this part of the contest any of these times (or schedule another time before May 6<sup>th</sup>):

- 3:00PM to 6:00PM Thursday April 30<sup>th</sup>.
- 2:00PM to 5:00PM Friday May 1<sup>st</sup>.
- 3:00PM to 6:00PM Tuesday May 5<sup>th</sup>.
- 2:00PM to 5:00PM Wednesday May 6<sup>th</sup>.

How will you be graded:

30%	Individual	How much effort did we see you putting into the project? Can you work well with the robot on your own? Did you try some “new” ideas on the robot? Creativity.
15%	Group	How well does the dead reckoning work? How does the robot decide when to correct its position and look for landmarks?
15%	Group	How are you incorporating the LADAR in your design? Have you added any of your own uses for the LADAR data?
20%	Group	Can your robot bring golf balls to the garbage shoot consistently?
10%	Group	VB application quality.
10%	Group	Quality of Design.

### Final Contest Day

When: **Tuesday May 12<sup>th</sup> from 7PM to 10PM**

How will you be graded:

75%	Group	How well did your robot work?
15%	Group	Completed Web Page.
10%	Group	Explanation of how your group used the LADAR in the project. This should be added to your Web Page.