| **Quest Rubric No: 4** | **1** | | |
|---|---|---|---|
| **Objective criteria (0/1, 1=met)** | **Rating** | **Max** | **Comments** |
| Uses PID for speed control for setpoint of [0.1-0.4 m/s] | 0 | 1 | Did not appear to function as PID |
| Stops within 10 cm of end | 1 | 1 | Used LIDAR. Better with ultrasonic |
| Drives in center of track +/1 25cm | 1 | 1 | Crawls slowly. |
| Successfully traverses A-B in one go, no hits or nudges | 1 | 1 | |
| Uses console or alpha display to show current position or speed as diagnostic | 1 | 1 | |
| Controlled remotely, start and stop | 1 | 1 | |
| Investigative question response | 0 | 1 | Answer not quantified as per instructions. |
| **Total objective criteria** | **5** | **7** | |
| **Qualitative criteria** | **Rating** | **Max** | |
| Quality of solution | 3 | 5 | 5 sensors on car, used lidar on left (use only one?). Team recognizes limits of many sensing tasks. Not use PID (did not find in code) |
| Quality of report.md including use of graphics | 2 | 3 | Difficult to appreciate your solution with limited narration and graphics. Seemed to show more graphics in video than report. Need more in report. |
| Quality of code reporting | 2 | 3 | Readme, but still not finding headers in files with your name on them. |
| Quality of video presentation | 3 | 3 | |
| **Total qualitative criteria** | **10** | **14** | |
| Quant Weight (75) | 54 | 75 | |
| Qual Weight (25) | 18 | 25 | |
| Total Score | **71** | 100 | |
| Rank (1-5) | 5 | 5 | |

**Comments**

Does not work when too close to the wall. Did not maintian speed under two loads. Corrects a bit when angled to the wall. "Centers" on one side. This demo was done the following week. Possibly samplng the sensor too frequently (200/s shown in code)