|  |  |  |  |
| --- | --- | --- | --- |
| **Kp value** | **Kd value** | Weights | Feedback |
| -2.50 | 2.50 | Standard | The change in left and right wheel speed was not fast enough for speeds above 30ish |
| 5 | 2 | Standard | Steadily overshooting, overdamped |
| 2 | 2 | Standard | Better straight line performance/correction, not turning fast enough |
| 2 | 5 | Standard | Better at turning than previous, but still not sharp enough |
| 2 | 6 |  | Turning got worse ☹ |
| 5 | 0 |  | Followed first curved, destabalizrf too much on the second curve and failed |
| 8 |  |  | Overshot the first curve |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Tried a different scaling, -4 -2.5 -1.5 -1, Kp was 6.5

|  |  |  |  |
| --- | --- | --- | --- |
| 10 | 1 |  | Made the first turn, oscillated too much on straight lines, missed the second turn |
| 12 | 3 |  |  |
| 10 | 3 | Base speed = 60 | Completed the track! Oscillated way too much tho |
| 8 | 3 | Base speed = 60 |  |
| 7 | 5 | Base speed = 60 |  |