# Donna

Saturday, June 20, 2015

Wheel size: 2.559 inches. Circumference then 8.039 inches (204 mm). Each 1/1200 odometer count then is 0.0067 inches (0.17mm).

Code: fc81b4e..3277a91

Put car to right of line

Enter key to start

>> FORWARD

[Odo:0] +++ FOLLOW\_LINE

\*[Odo:0] Position: 3155 L 23 23 23 761 140 23 3 23 R, YAW: 261.94

... ... PID. Position: 3.16, a\_speed: 64, b\_speed: 64

>> FORWARD

\*[Odo:2] Position: 3155 L 23 23 23 761 140 23 3 23 R, YAW: 261.94

[Odo:2] +++ FOLLOW\_LINE

... ... PID. Position: 3.16, a\_speed: 64, b\_speed: 64

>> FORWARD

\*[Odo:10] Position: 3155 L 23 23 23 761 140 23 3 23 R, YAW: 261.94

[Odo:10] +++ FOLLOW\_LINE

... ... PID. Position: 3.16, a\_speed: 64, b\_speed: 64

>> FORWARD

\*[Odo:23] Position: 3155 L 23 23 23 761 140 23 3 23 R, YAW: 261.94

[Odo:24] +++ FOLLOW\_LINE

... ... PID. Position: 3.16, a\_speed: 64, b\_speed: 64

>> FORWARD

So loop is reading about every 12 odometries, or 0.08 inches (2 mm). Then:

\*[Odo:1888] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:1892] +++ FOLLOW\_LINE

... ... FOUND start of crossing, left: 1, right: 1

\*[Odo:1932] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:1935] +++ FOLLOW\_LINE\_END

\*[Odo:1963] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:1967] +++ FOLLOW\_LINE\_END

\*[Odo:1998] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:2002] +++ FOLLOW\_LINE\_END

\*[Odo:2031] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:2035] +++ FOLLOW\_LINE\_END

\*[Odo:2066] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:2072] +++ FOLLOW\_LINE\_END

\*[Odo:2098] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:2102] +++ FOLLOW\_LINE\_END

\*[Odo:2132] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:2136] +++ FOUND\_END

\*[Odo:2161] Position: 2804 L 1000 861 658 436 300 258 350 658 R, YAW: 265.37

[Odo:2165] +++ FOUND\_END

\*[Odo:2188] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2189] +++ FOUND\_END

\*[Odo:2204] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2205] +++ FOUND\_END

\*[Odo:2218] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2220] +++ FOUND\_END

\*[Odo:2231] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2232] +++ FOUND\_END

\*[Odo:2239] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2239] +++ FOUND\_END

\*[Odo:2245] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2245] +++ FOUND\_END

\*[Odo:2249] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2250] +++ FOUND\_END

\*[Odo:2252] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2252] +++ FOUND\_END

\*[Odo:2253] Position: 0 L 0 0 0 8 0 0 0 0 R, YAW: 265.87

[Odo:2253] +++ FOUND\_END

Car stopped approximately 0.72 inches beyond end-symbol end (18mm) [105 odos], is further to left. End-symbol is about 2.12 inches (54mm) [318 odos].

At 1892 odos, found line start. At 2136 odos, found line end. Sensor determined line width was 244 odos instead of 318.



6/20/2015 12:05 RUN 2

Start with motor to right of line over sensor 3 (1 is leftmost).