

## Group 4 Car Features

Two-way communication with nRF module

Heading holder controller

PID speed controller

Back and front ultrasonic sensors using INT0 and Pin Change Interrupt – collision avoidance

PPM reading from RC receiver in Base Arduino

Odometer – shows how many centimeters it has travelled

Front wheel RPM

Ch1	Ch2	Odometer	RPM	FrontRPM1	FrontRPM2	DesiredRPM	Command	Heading
1468	1536	14	0	4	-7	0	1480.00	20.76
1468	1532	14	0	-8	3	0	1480.00	20.76
1468	1532	14	0	-11	22	0	1480.00	20.77
1472	1532	14	0	14	27	0	1480.00	20.77
1472	1532	14	0	10	-4	0	1480.00	20.78
1472	1532	14	0	-7	-30	0	1480.00	20.78
1468	1532	14	0	-64	-98	0	1480.00	20.79
1468	1532	14	0	-53	-85	0	1480.00	20.80
1468	1532	14	0	-19	-42	0	1480.00	20.80
1468	1532	14	0	-7	-26	0	1480.00	20.80
1468	1536	14	0	-3	11	0	1480.00	20.81
1468	1532	14	0	-1	8	0	1480.00	20.82
1468	1536	14	0	-1	21	0	1480.00	20.83
1468	1532	14	0	-0	9	0	1480.00	20.84
1472	1532	14	0	-0	-11	0	1480.00	20.85
1468	1532	14	0	-0	-17	0	1480.00	20.85
1468	1536	14	0	52	-18	0	1480.00	20.85
1472	1532	14	0	41	14	0	1480.00	20.85
1468	1528	14	0	7	39	0	1480.00	20.85
1472	1532	14	0	-30	14	0	1480.00	20.86