

170305 4WD Robot System Schematic Pin Assignments

IDE PIN	PORT	Pin Type	Function	Notes
0	PE0	Serial	Rx0	Wixel Serial In
1	PE1	Serial	Tx0	Wixel Serial Out
2	PE4	Digital	Unused	
3	PG5	Digital	Chg Conn Det	
5	PE3	Digital	RtPing	Ping Sensor, Right
6	PH3	Digital	LtPing	Ping Sensor, Left
7	PH4	Digital	LaserPtEn	Red Laser Pointer Enable
8	PH5	Digital	ENB	Left Motor Control
9	PH6	Digital	In4	Left Motor Control
10	PB4	Digital	In3	Left Motor Control
11	PB5	Digital	In2	Left Motor Control
12	PB6	Digital	In1	Left Motor Control
13	PB7	Digital	EnA	Left Motor Control
14	PJ1	Serial	Unused	
15	PJ0	Serial	Unused	
16	PH1	Serial	Unused	
17	PH0	Serial	Unused	
18	PD3	Serial	Unused	INT3
19	PD2	Serial	Unused	INT2
20	PD1	SDA	Unused	INT1
21	PD0	SCL	Unused	INT0
22	PA0	Digital	Pwr1 In	Charger Status In
23	PA1	Digital	Chgr Conn	Charger Status In
24	PA2	Digital	Chg1 In	Charger Status In
25	PA3	Digital	Pwr1 LED Out	Charger Status Out
26	PA4	Digital	Fin1 In	Charger Status In
27	PA5	Digital	Chg1 LED Out	Charger Status Out
28	PA6	Digital	Coil Enable	Charger Status In
29	PA7	Digital	Fin1 LED Out	Charger Status Out
30	PC7	Digital	Fin2 In	Charger Status In
31	PC6	Digital	Fin2 LED Out	Charger Status Out
32	PC5	Digital	Chg2 In	Charger Status In
33	PC4	Digital	Chg2 LED Out	Charger Status Out
34	PC3	Digital	Pwr2 In	Charger Status In
35	PC2	Digital	Pwr2 LED Out	Charger Status Out
36	PC1	Digital	In1	Right Motor Control
37	PC0	Digital	Unused	
38	PD7	Digital	In2	Right Motor Control
39	PG2	Digital	Unused	
40	PG1	Digital	In3	Right Motor Control
41	PG0	Digital	Unused	
42	PL7	Digital	In4	Right Motor Control
43	PL6	Digital	Unused	
44	PL5	Digital	EnA	Right Motor Control
45	PL4	Digital	Unused	
46	PL3	Digital	EnB	Right Motor Control

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47 PL2	Digital	LGrnLED	Tailight, Left Green
48 PL1	Digital	Unused	
49 PL0	Digital	LRedLED	Tailight, Left Red
50 PB1	Digital	LIDAR_Trig	LIDAR Distance Trigger
51 PB2	Digital	RRedLED	Tailight, Right Red
52 PB3	Digital	LIDAR_Dist	LIDAR Distance Value
53 PB0	Digital	RGrnLED	Tailight, Right Green
54 ADC0	Analog	Batt Mon	A0
55 ADC1	Analog	IR DET 1	A1
56 ADC2	Analog	IR DET 2	A2
57 ADC3	Analog	IR DET 3	A3
58 ADC4	Analog	IR DET 4	A4
59 ADC5	Analog	Unused	A5
60 ADC6	Analog	Unused	A6
61 ADC7	Analog	Unused	A7
62 ADC8	Analog	Unused	A8 PCINT16
63 ADC9	Analog	Unused	A9 PCINT17
64 ADC10	Analog	Unused	A10 PCINT18
65 ADC11	Analog	Unused	A11 PCINT19
66 ADC12	Analog	Unused	A12 PCINT20
67 ADC13	Analog	Unused	A13 PCINT21
68 ADC14	Analog	Unused	A14 PCINT22
69 ADC15	Analog	Unused	A15 PCINT23