

## Documentation for Motor Controller Board

^^ PRU #1 ^^^

<u>Bit #</u>	<u>Name</u>	<u>Purpose</u>	<u>Header Pin</u>
R30.t0	M3-0	Motor 3 control signal	P8_45
R30.t1	M3-1	Motor 3 control signal	P8_46
R30.t2	M1-0	Motor 1 control signal	P8_43
R30.t3	M1-1	Motor 1 control signal	P8_44
R30.t4	M2-0	Motor 2 control signal	P8_41
R30.t5	M2-1	Motor 2 control signal	P8_42
R30.t6	M4-0	Motor 4 control signal	P8_39
R30.t7	M4-1	Motor 4 control signal	P8_40

<u>Bit #</u>	<u>Name</u>	<u>Purpose</u>	<u>Header Pin</u>
R31.t7	PRU0_INT	Interrupt from accelerometer	P9_25
R31.t8	ENC1	Encoder 1 input	P8_27
R31.t9	ENC2	Encoder 2 input	P8_29
R31.t10	ENC3	Encoder 3 input	P8_28
R31.t11	ENC4	Encoder 4 input	P8_30

^^ PRU #0 ^^^

<u>Bit #</u>	<u>Name</u>	<u>Purpose</u>	<u>Header Pin</u>
R30.t5	BUF_ENA	Enables tri-state buffers	P9_27
R30.t15	LED	PRU #0 LED	P8_11

<u>Bit #</u>	<u>Name</u>	<u>Purpose</u>	<u>Header Pin</u>
R31.t14	SWITCH	PRU #0 Switch	P8_16

^^ GPIO ^^^

<u>GPIO #</u>	<u>Name</u>	<u>Purpose</u>	<u>Header Pin</u>
44	GPIO1[12]	GPIO LED	P8_12
47	GPIO1[15]	GPIO Switch	P8_15
2	GPIO0[2]	Accelerometer GPIO interrupt	P9_22

^^ I2C-2 ^^^

I2C-2 SCLK	I2C Bus #2 serial clock	P9_17
I2C-2 SDA	I2C Bus #2 serial data	P9_18