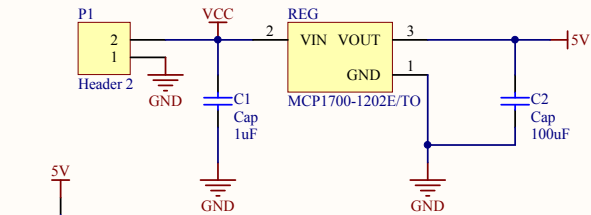
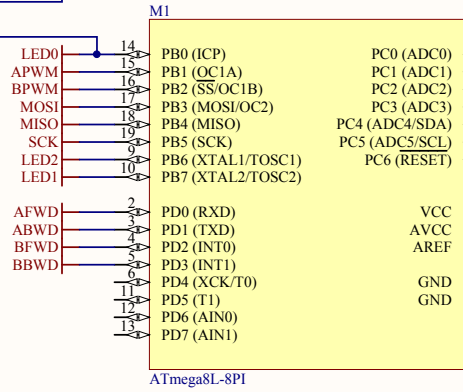


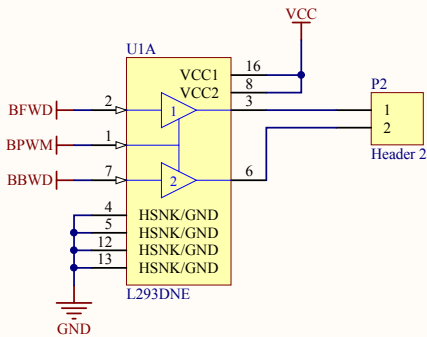
Voltage Regulator



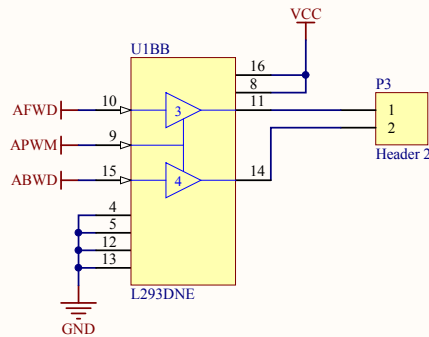
Microcontroller



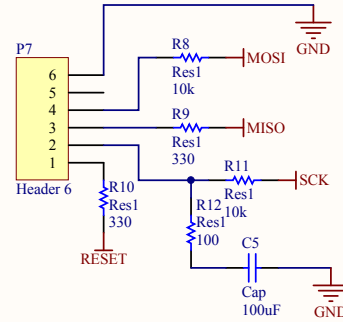
Motor Driver



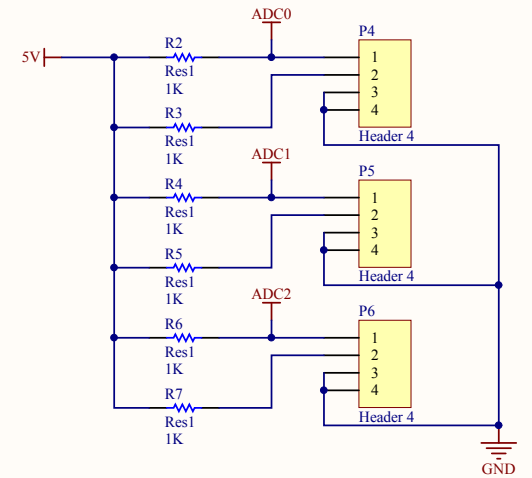
Left Motor Driver



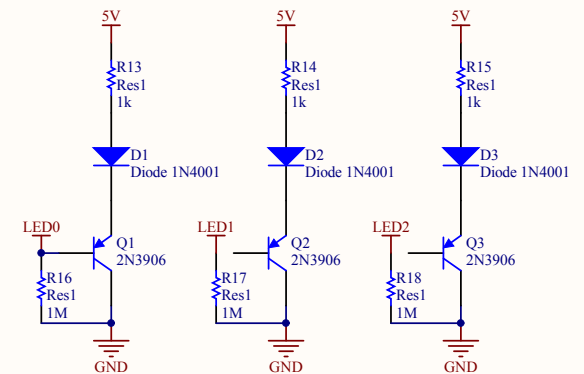
Parallel Port Connection



Optocoupler Headers



Debugging Diodes



Title **Line Following Robot**

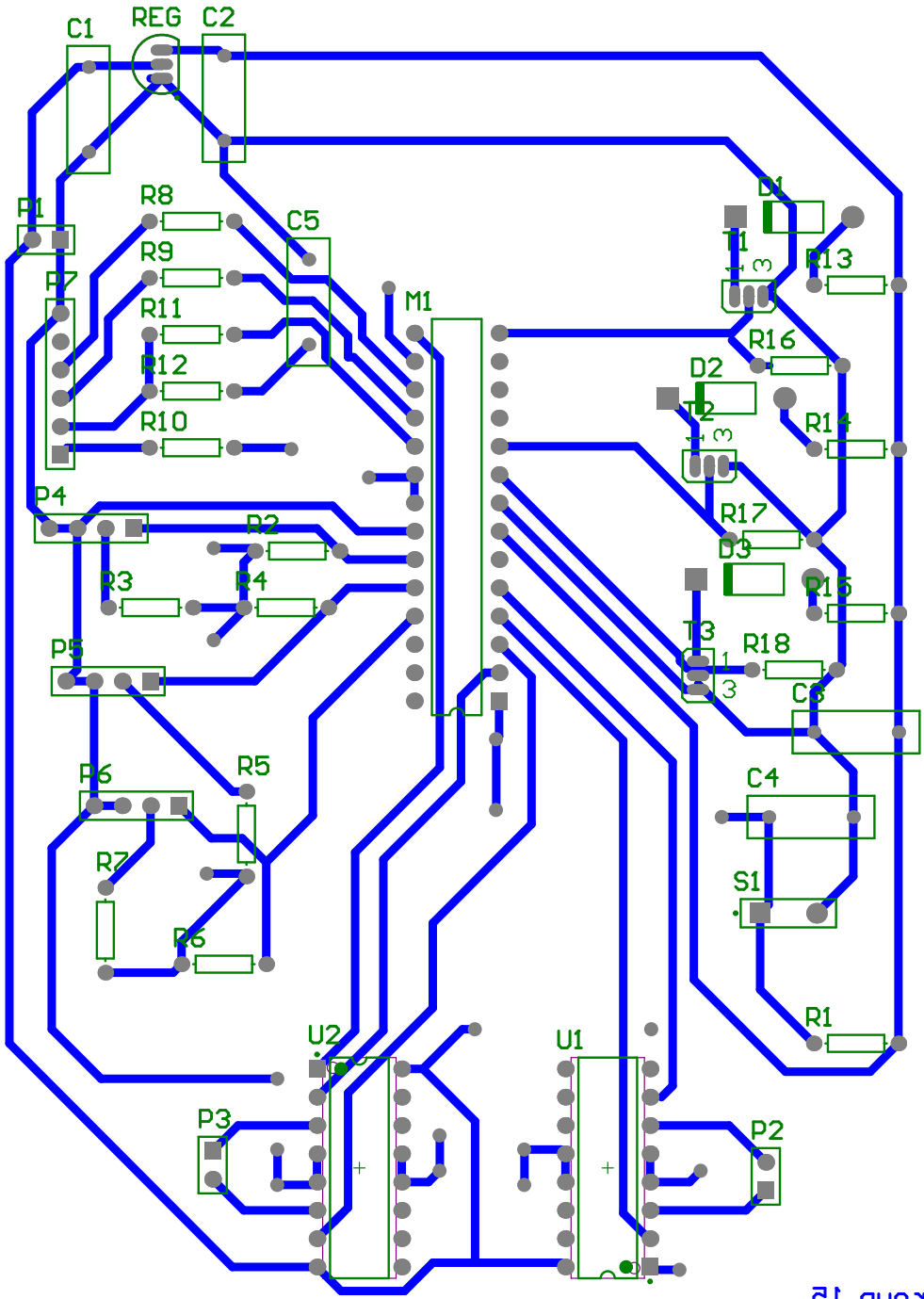
Drawn by Nick Bingham and Matt Kokshorn Revision: 1

Date: 7/18/2012 Time: 1:41:50 AM Sheet of

File: \\Maxwell.elec.canterbury.ac.nz\\mlk28\\My Desktop\\PCB300\\Ass2.SchDoc

ECE Department
University of Canterbury
Christchurch 8041
New Zealand





Comment	Description	Designator	Footprint	LibRef	Quantity
Cap	Capacitor	C1, C2, C3, C4, C5, C6	RAD-0.3	Cap	6
Diode 1N4001	1 Amp General Purpose Rectifier	D1, D2, D3	DIO10.46-5.3x2.8	Diode 1N4001	3
ATmega8L-8PI	8-Bit AVR Microcontroller with 8K Bytes of In-System Programmable Flash Memory	M1	28P3	ATmega8L-8PI	1
Header 2	Header, 2-Pin	P1, P2, P3	HDR1X2	Header 2	3
Header 4	Header, 4-Pin	P4, P5, P6	HDR1X4	Header 4	3
Header 6	Header, 6-Pin	P7	HDR1X6	Header 6	1
2N3906	PNP General Purpose Amplifier	Q1, Q2, Q3	BCY-W3/ E4	2N3906	3
Res1	Resistor	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19	AXIAL-0.3	Res1	19
MCP1700-1202E/ TO	Low Quiescent Current LDO, 3-Pin TO-92, Extended TemperatureBAG	REG	TO-92-TO3	MCP1700-1202E/ TO	1
SW-PB	Switch	S1, S2	SPST-2	SW-PB	2
L293DNE	Quadruple Half-H Dr	U1, U1B	NE016	L293DNE	2