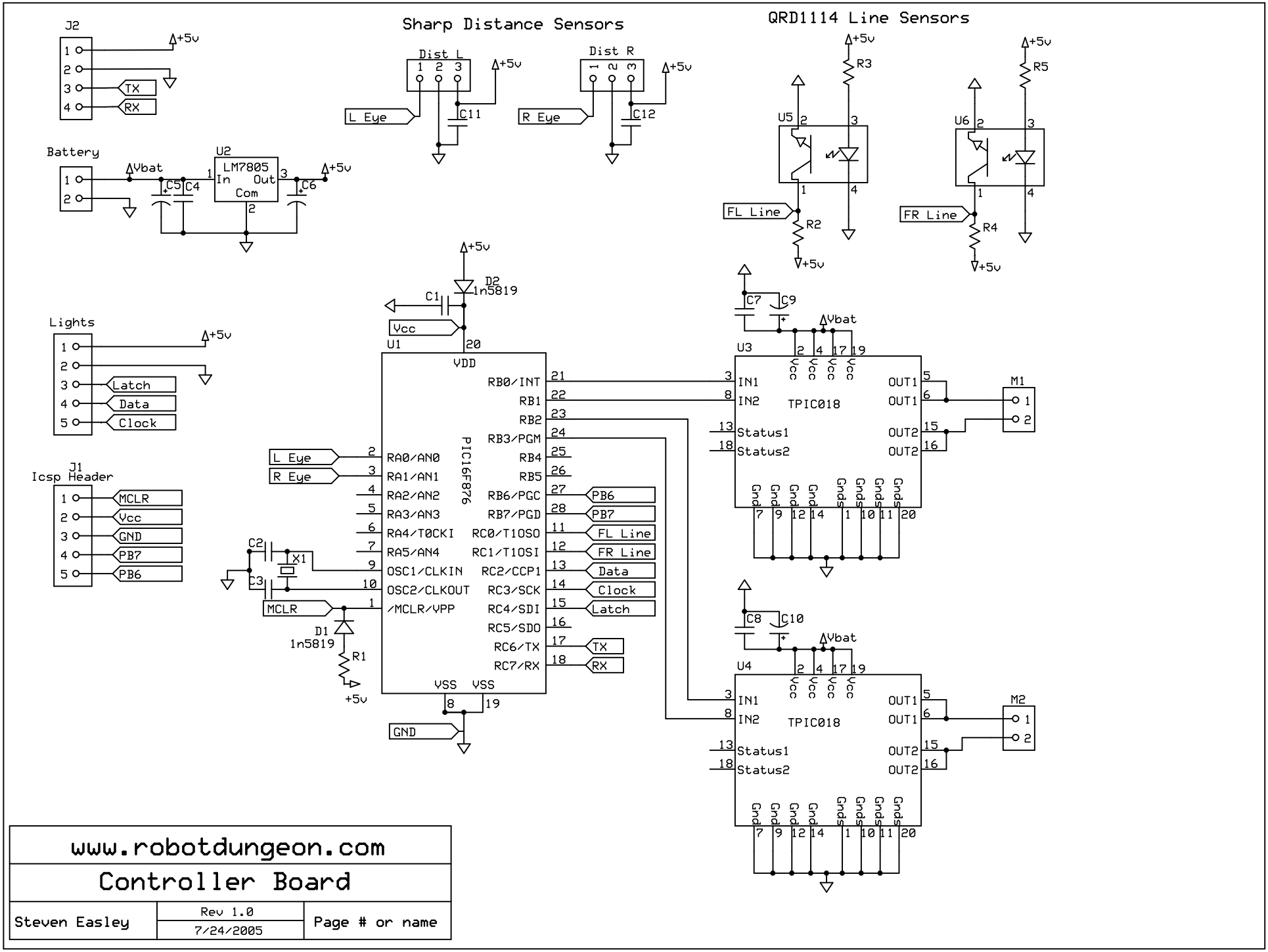
Sharp Distance Sensors
QRD1114 Line Sensors
J2
TX
RX
Battery
Vbat
U2
LM7805
In
Out
Com
C5
C4
C6
+5v
Dist L
Dist R
L Eye
R Eye
C11
C12
U5
U6
R3
R5
R2
R4
FL Line
FR Line
Lights
Latch
Data
Clock
J1
Icsp Header
MCLR
Vcc
GND
PB7
PB6
D2
1n5819
C1
U1
PIC16F876
VDD
VSS
RB0/INT
RB1
RB2
RB3/PGM
RB4
RB5
RB6/PGC
RB7/PGD
RC0/T1OSO
RC1/T1OSI
RC2/CCP1
RC3/SCK
RC4/SDI
RC5/SDO
RC6/TX
RC7/RX
RA0/AN0
RA1/AN1
RA2/AN2
RA3/AN3
RA4/T0CKI
RA5/AN4
OSC1/CLKIN
OSC2/CLKOUT
/MCLR/VPP
C2
C3
X1
D1
1n5819
R1
C7
C9
C8
C10
U3
U4
TPIC018
IN1
IN2
Status1
Status2
OUT1
OUT2
Gnd
Gnds
M1
M2
www.robotdungeon.com
Controller Board
Steven Easley
Rev 1.0
7/24/2005
Page # or name