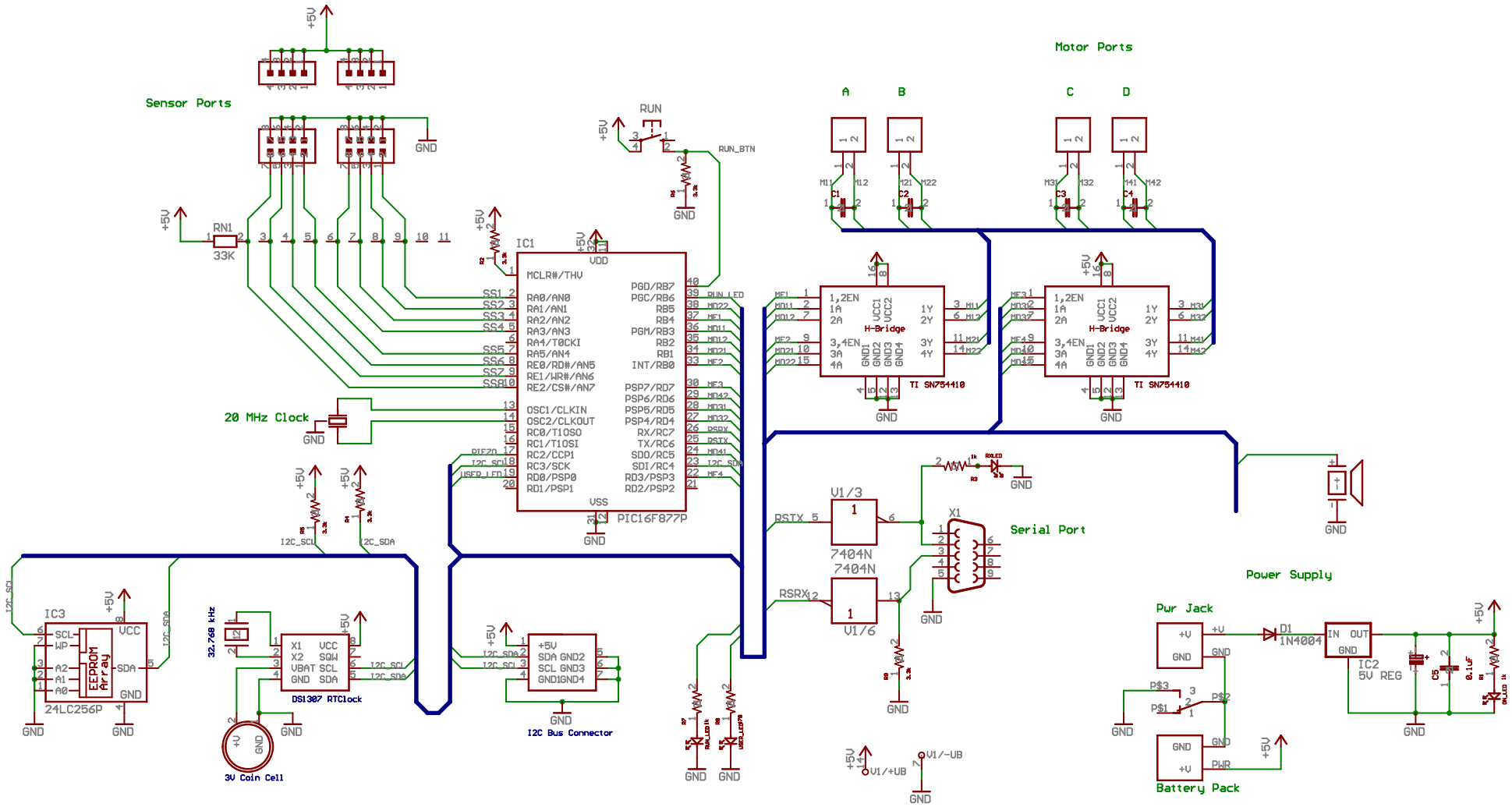
Sensor Ports
Motor Ports
A
B
C
D
RUN
RUN_BTN
IC1
PIC16F877P
MCLR#/THV
RA0/AN0
RA1/AN1
RA2/AN2
RA3/AN3
RA4/T0CKI
RA5/AN4
RE0/RD#/AN5
RE1/WR#/AN6
RE2/CS#/AN7
OSC1/CLKIN
OSC2/CLKOUT
RC0/T1OSO
RC1/T1OSI
RC2/CCP1
RC3/SCK
RD0/PSP0
RD1/PSP1
PSP7/RD7
PSP6/RD6
PSP5/RD5
PSP4/RD4
RX/RC7
TX/RC6
SDO/RC5
SDI/RC4
RD3/PSP3
RD2/PSP2
PGD/RB7
PGC/RB6
RB5
RB4
PGM/RB3
RB2
RB1
INT/RB0
VDD
VSS
RN1
33K
20 MHz Clock
H-Bridge
TI SN754410
1,2EN
1A
2A
3,4EN
3A
4A
1Y
2Y
3Y
4Y
GND1
GND2
GND3
GND4
VCC1
VCC2
Serial Port
7404N
V1/3
V1/6
RSTX
RSRX
IC3
24LC256P
EEPROM Array
SCL
WP
A2
A1
A0
SDA
VCC
GND
I2C_SCL
I2C_SDA
32.768 kHz
DS1307 RTClock
X1
X2
VBAT
SQW
3V Coin Cell
I2C Bus Connector
Power Supply
Pwr Jack
D1
1N4004
IC2
5V REG
Battery Pack
PWR
+5V
+V
0.1uF