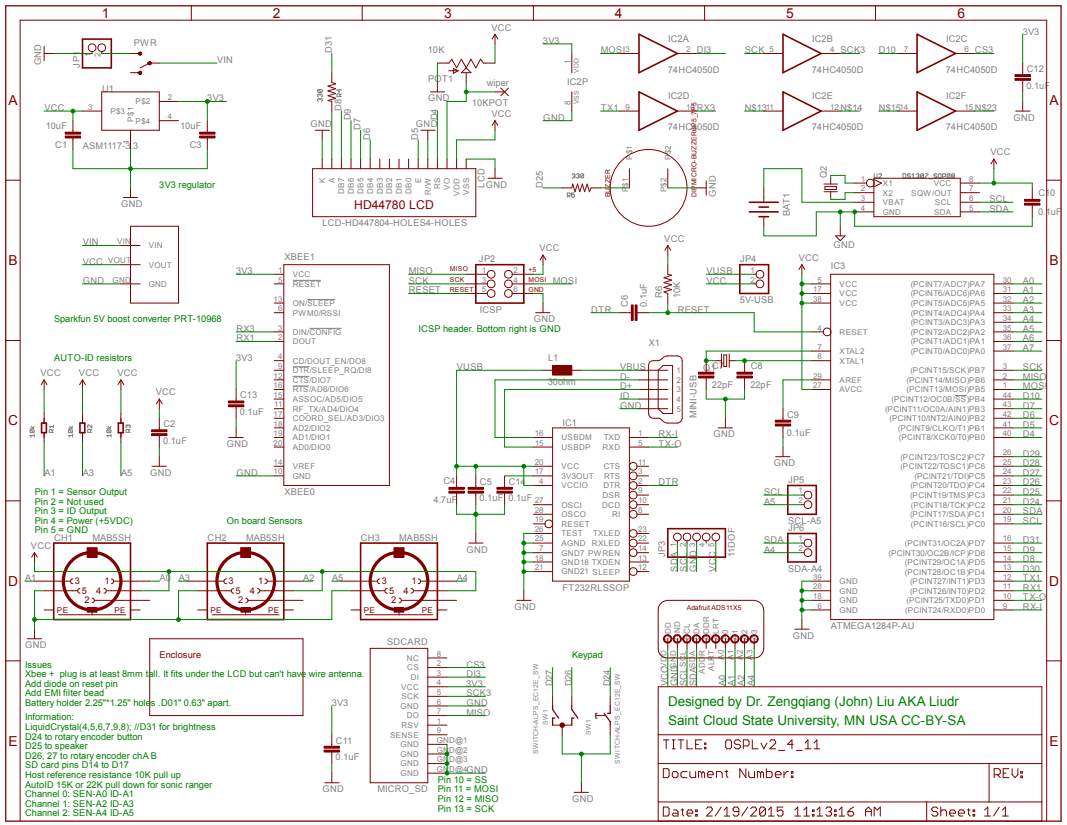
HD44780 LCD
LCD-HD447804-HOLES4-HOLES
3V3 regulator
Sparkfun 5V boost converter PRT-10968
ICSP header. Bottom right is GND
AUTO-ID resistors
Pin 1 = Sensor Output
Pin 2 = Not used
Pin 3 = ID Output
Pin 4 = Power (+5VDC)
Pin 5 = GND
On board Sensors
Enclosure
Issues
Xbee + plug is at least 8mm tall. It fits under the LCD but can't have wire antenna.
Add diode on reset pin
Add EMI filter bead
Battery holder 2.25"*1.25" holes .D01" 0.63" apart.
Information:
LiquidCrystal(4,5,6,7,9,8); //D31 for brightness
D24 to rotary encoder button
D25 to speaker
D26, 27 to rotary encoder chA B
SD card pins D14 to D17
Host reference resistance 10K pull up
AutoID 15K or 22K pull down for sonic ranger
Channel 0: SEN-A0 ID-A1
Channel 1: SEN-A2 ID-A3
Channel 2: SEN-A4 ID-A5
Pin 10 = SS
Pin 11 = MOSI
Pin 12 = MISO
Pin 13 = SCK
Keypad
ATMEGA1284P-AU
FT232RLSSOP
Designed by Dr. Zengqiang (John) Liu AKA Liudr
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