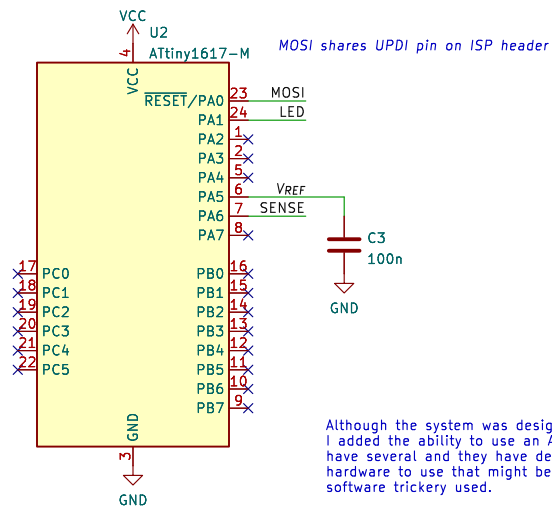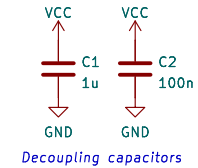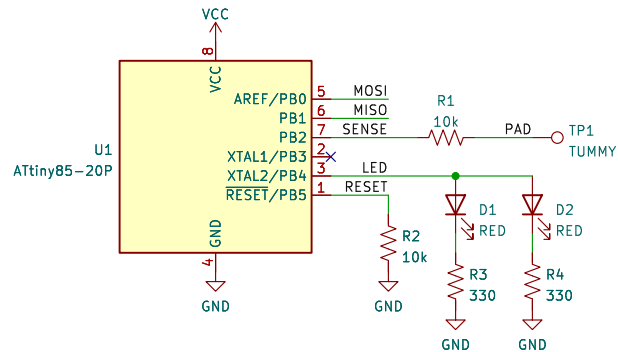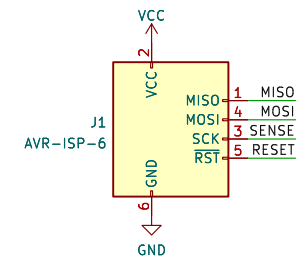Uses a SMT footprint so I don't mess up the art

Power is supplied by a single CR2032 battery, no regulator or protection.

VCC

BT1
CR2032

GND

VCC

8 VCC

U1
ATtiny85-20P

AREF/PB0 5 MOSI
PB1 6 MISO
PB2 7 SENSE
XTAL1/PB3 2
XTAL2/PB4 3 LED
RESET/PB5 1 RESET

4 GND

GND

R1
10k

PAD

TP1
TUMMY

D1 RED   D2 RED

R2
10k

GND

R3
330

GND

R4
330

GND

GND

VCC   VCC

C1
1u

C2
100n

GND   GND

Decoupling capacitors

VCC

U2
ATtiny1617-M

4 VCC

RESET/PA0 23 MOSI
PA1 24 LED
PA2 1
PA3 2
PA4 5
PA5 6 V_{REF}
PA6 7 SENSE
PA7 8

PC0 17
PC1 18
PC2 19
PC3 20
PC4 21
PC5 22

PB0 16
PB1 15
PB2 14
PB3 13
PB4 12
PB5 11
PB6 10
PB7 9

3 GND

GND

MOSI shares UPDI pin on ISP header

C3
100n

GND

Although the system was designed for the ATtiny85,
I added the ability to use an ATtiny1617 since I
have several and they have dedicated touch detection
hardware to use that might be better than the
software trickery used.

VCC

2 VCC

J1
AVR-ISP-6

MISO 1 MISO
MOSI 4 MOSI
SCK 3 SENSE
RST 5 RESET

6 GND

GND

A small circuit to be handed out as a gift

Although originally designed for ATtiny85, allows for ATtiny1617
Savo Bajic
Sheet: /
File: raccoon.kicad_sch
Title: Capacitve Sensing Raccoon
Size: USLetter   Date: 2024-01-03   Rev: 2.1
KiCad E.D.A. kicad 7.0.10-7.0.10~ubuntu22.04.1   Id: 1/1