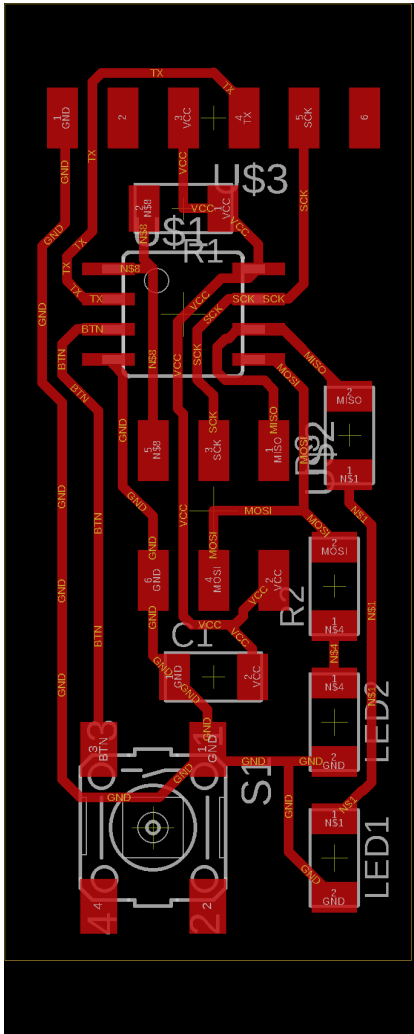# Little Hello Board (w/ FTDI) v01

Name: _____

A simple board with ATtiny45 processor, a button and 2 LEDs and programming. Designed by Greg Buckland at Lena Park Fab Lab. gbuckland@lenaparkcdc.org
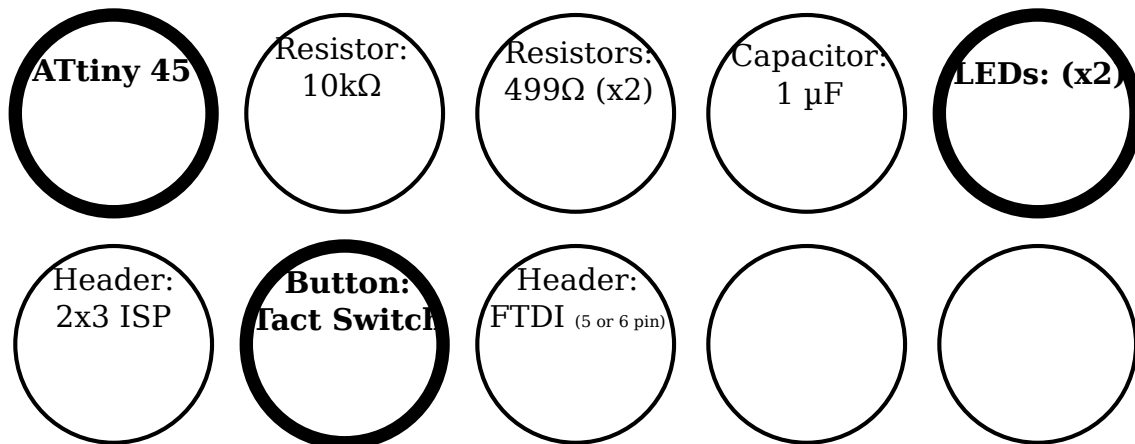Documentation at:
https://github.com/gorkon/little-hello-board

Components:
-Microcontroller: ATtiny45*
-Resistor: 10 kΩ
-Resistor: 499 Ω (x2)
-Capacitor: 1μF
-LEDs: Green* (x2) (or any color)
-Header: 2x3 ISP header
-Button: Tactile Switch*
-Header: 6- (or 5-) pin FTDI

*orientation matters

Find your components and tape them down with double-sided tape in the appropriate circle:
bold circles are components where orientation matters

(**ATtiny 45**) (Resistor: 10kΩ) (Resistors: 499Ω (x2)) (Capacitor: 1 μF) (**LEDs: (x2)**)

(Header: 2x3 ISP) (**Button: Tact Switch**) (Header: FTDI (5 or 6 pin)) ( ) ( )

Pinout Diagram for Programming:

ATtiny25/45/85 pinout

POWER	
GROUND	
PORT PIN	
ARDUINO PIN	
ANALOG	
SERIAL INTERFACE	
ISP INTERFACE	
TIMER / PWM PIN	
INTERRUPT	

ADC0 — RESET — 5/A0 — PCINT5 — PB5 — 1   8 — VCC

XTAL1 — ADC3 — 3/A3 — PCINT3 — PB3 — 2   7 — PB2 — PCINT2 — 2/A1 — SCK — SCL — INT0 — ADC1

XTAL2 — ADC2 — OC1B — 4/A2 — PCINT4 — PB4 — 3   6 — PB1 — PCINT1 — 1 — MISO — DO — OC0B — OC1A — AIN1

GND — 4   5 — PB0 — PCINT0 — 0 — MOSI — DI — SDA — OC0A — AIN0 — AREF

ATtiny25/45/85