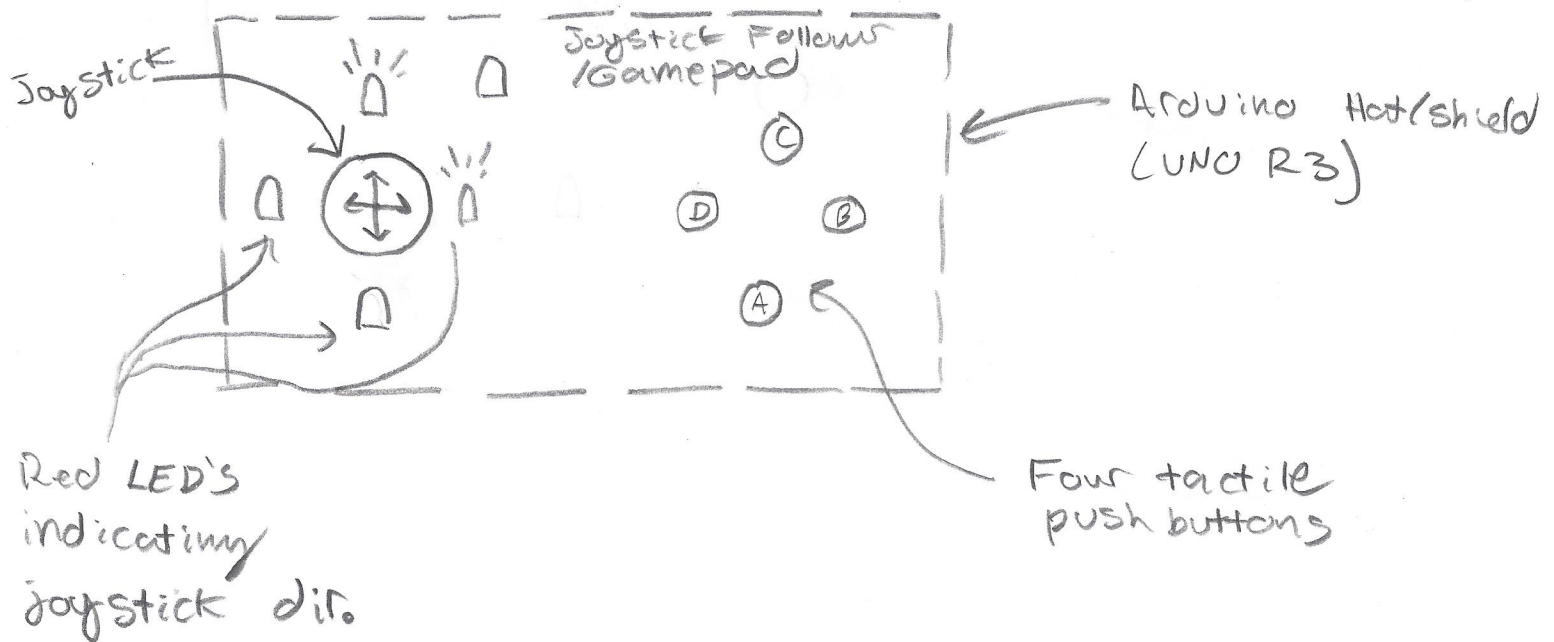# Joystick Follower

Operation:

- A 2 axis Joystick (Pot based) is read through the analog pins of the Arduion (A0, A1)

- The joystick has a pushable button that is read through a digital input pin
  - Pull-up / Pull-Down ?

- 4 LEDs are used to indicate the direction the joystick is pointing

- 1 LED activates when pushbutton is held down

- Add four additional buttons for other user inputs (digital inputs as well).

- The PCB should be an Arduino Hat for UNO R3.

Joystick

Joystick Follower /Gamepad

Arduino Hat/shield (UNO R3)

Red LED's indicating joystick dir.

Four tactile push buttons

- Recall, a Joystick is 2 potentiometers

Rough Schematic

+5V

R R R R

Pull-up resistors

Push button

Arduino UNO

Digital inputs

Digital outputs

A0

A1

D2

R

Red LED's

GND

R R R R

Joystick potentiometers

+5V   +5V

V   H

GND

Pull-up Resistor

+5V

R

B1

GND

Joystick button.