

Parts

- 8x8 Led Matrix
- 2 mini breadboards
- Joystick module
- Arduino Nano
- 2 LED's
- 1 active buzzer
- 1 9V battery
- 1 switch (for power)

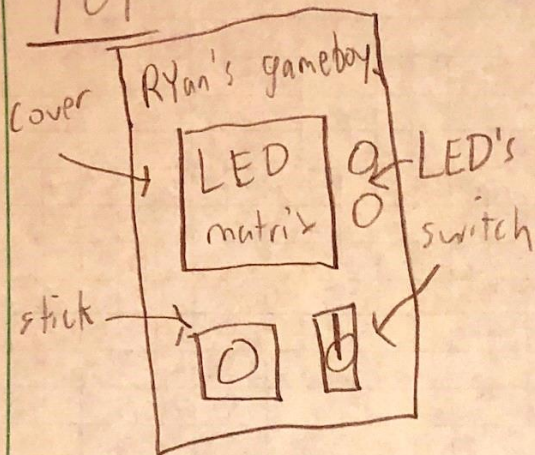
Idea

- make a snake clone on a 8x8 matrix
- use joystick as only input (like CPRE 185)
- use buzzer for sounds and extra LED's as feedback
- Make it compact with a gameboy, and add a signature for Ryan on the prints
- make it accessible to use and take apart

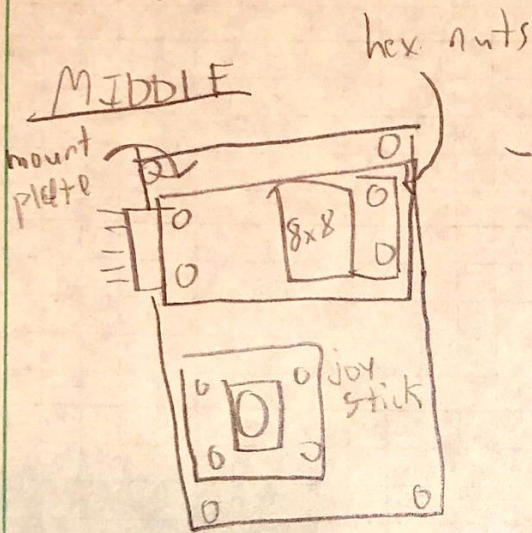
Wiring

- All grounds connected ALWAYS
- Switch to VIN (Nano)
- Switch: VRX \rightarrow A0 VRY \rightarrow A1 SW \rightarrow D2
- 8x8: DIN \rightarrow D4 CS \rightarrow D5 CLK \rightarrow D6
- Buzzer: + side \rightarrow D3
- LED's: - side \rightarrow ground + side \rightarrow D7/D8

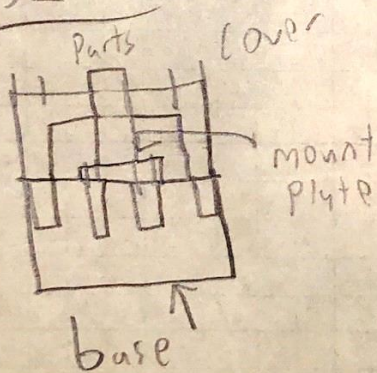
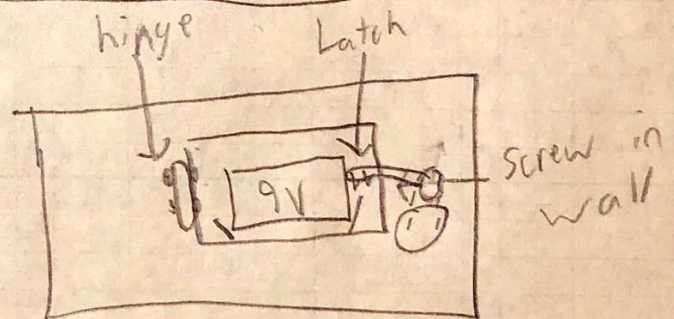
If you have any questions just ask!

TOP

- mount joystick and 8x8 on a middle plate and design a cover to go over the boards and fit the switch

MIDDLE

- make mount plate to screw in parts, make holes to attach to base

SIDEBattery side

- make piece to hold 9v and attach to wall w/ hinge
- make latch on other side
- EZ battery replacement!!!