Function proposal

Hardware

Inputs

Rotary Encoders

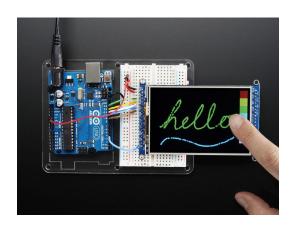
Function: used as dials to draw the picture and to navigate through other functions such as saving page and switching between one and two player mode.

- https://www.sparkfun.com/products/9117
- https://www.adafruit.com/product/377
- https://learn.adafruit.com/pro-trinket-rotary-encoder

Buttons

Function: power on and off, enter button used to select settings and save drawings

Outputs



- https://www.adafruit.com/product/2050
- 3.5" TFT 320x480 + Touchscreen Breakout Board w/MicroSD Socket

Processing

- Arduino Pro Mini
 - Function:
 - Purchasing:
 - https://www.sparkfun.com/products/11113

Documentation:

 Virabotics sd card reader and writer Function: This is used to save images Purchasing:

Documentation:







http://scholarslab.org/makerspace/saving-arduino-sensor-data/
 or

sd breakout board

Function: This would be used to save images Purchase source:

https://www.adafruit.com/product/254

Documentation:



https://learn.adafruit.com/adafruit-micro-sd-breakout-board-card-tutorial?view
 =all

Power

• TP5410 - LiPo Charger/Boost Converter

Purchase Source: https://www.ebay.com/itm/191990401129
Documentation: https://www.youtube.com/watch?v=aND0j2Y2lkM

- Power Explain the hardware necessary to power your device. Devices must be powered via LiPo batteries, and should be rechargeable and monitor for low power conditions.
 - Power-Related Hardware Name
 - Function Description in Device
 - Documentation Source URL (Libraries, Schematics, Guides, etc.)
- Software
 - Create a comprehensive list of software that you will use to develop your hardware. Include any libraries, drivers, etc. not listed in hardware.
 - Software Name
 - Functional Description
 - Documentation Source URL (Reference, Guides, etc.)