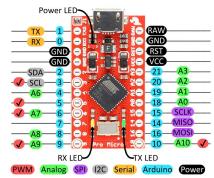
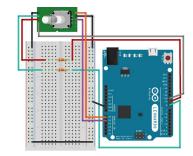
- 03-FunctionProposal.pdf
- Graham Widmann
  - Hardware
    - Inputs
      - Push buttons
        - Used to activate different tools within photoshop and and switching between functions
        - https://www.arduino.cc/en/Tutorial/Button
      - Rotary encoder
        - Used to adjust hardness and sizes for brushes and +
        - <a href="http://howtomechatronics.com/tutorials/arduino/rotary-enco">http://howtomechatronics.com/tutorials/arduino/rotary-enco</a>
          der-works-use-arduino/
        - https://www.adafruit.com/product/377?gclid=EAlalQobChM lib3l8rSB2QIVEbnACh36lA-mEAYYASABEgJup D BwE



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- Linear SoftPot (Ribbon Sensor)
  - Used to select tools or change colors rapidly
  - https://www.adafruit.com/product/178
- Processing
  - Arduino Pro Micro
    - Easily programmable to a keyboard for the push buttons
    - Has enough ports to hook up screen, push buttons, and rotary encoder, (Ribbon sensor is possible but 100% going to be in use)
    - https://www.sparkfun.com/tutorials/337

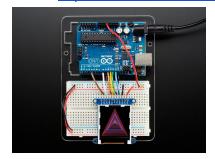


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## Outputs

- Adafruit 1.44" Color TFT LCD Display with MicroSD Card breakout - ST7735R [ADA2088]
  - This will show the user what tool is being used along with color and size/ hardness value.
  - Reason:
    - This screen is small enough to fit the form factor that I am attempting to build. It will also allow me to show what tool is being used at the moment and will allow the user to see what color is being painted using the color screen. Default will be white on a black screen.
  - https://www.amazon.com/gp/product/B00SK6932C/ ref=oh\_aui\_detailpage\_o04\_s01?ie=UTF8&psc=1
  - https://www.adafruit.com/product/2088



## Power

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- TP5410 LiPo Charger/Boost Converter
  - This device allows for charging of batteries and power management for the system.
  - https://www.ebay.com/itm/191990401129
  - https://www.youtube.com/watch?v=aND0j2Y2lkM

## Software

 Create a comprehensive list of software that you will use to develop your hardware. Include any libraries, drivers, etc. not listed in hardware.

## HID software

- This will allow my keys that I program to communicate as shortcuts in photoshop, InDesign, and Illustrator.
  - These keys will act just like a keyboard and will make my programming easy since there are shortcuts to many of the tools I look to control.
- o <a href="https://www.sparkfun.com/tutorials/337">https://www.sparkfun.com/tutorials/337</a>