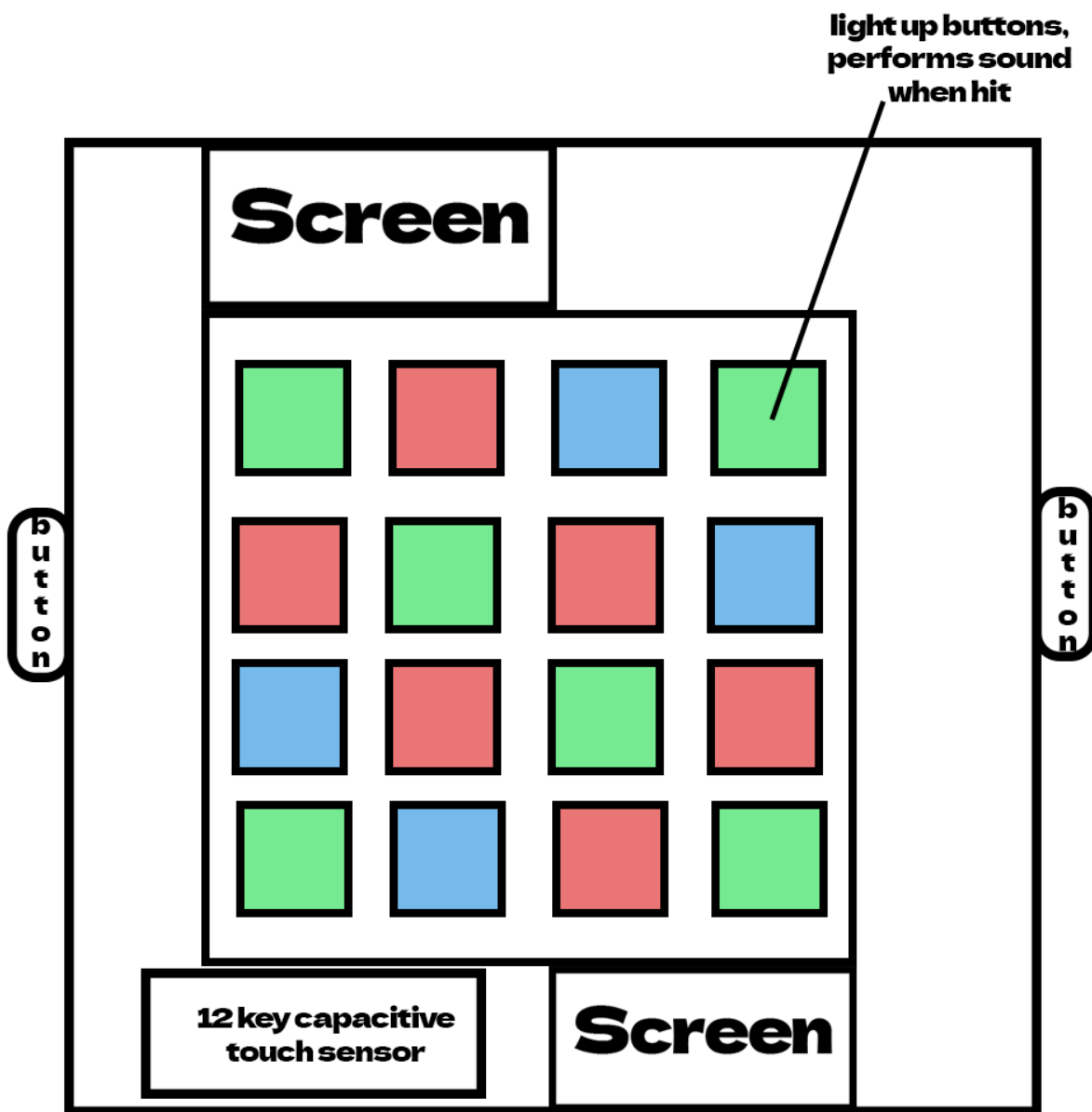


Zachary, Steven, Zack, David

Proposal: For our final, we wanted to do a collaborative project. This project would allow the user to utilize buttons on a board which will allow them to press to create noises or display a letter on a screen. The overall concept has the aesthetics of a musical launchpad that DJs use to produce live music. But the abilities of the launchpad will have additional content of a small screen and creating live audio or text. Each of us will have different launchpads, various screens, and colors. At the very end, we will try to present as a group with different sounds to create a “song.”



Shopping List

Find at least 2 different serial-based sensors (inputs)

<https://www.adafruit.com/product/4830> (Buy Now!)

Find at least 2 different serial-based display/actuator/controller (output)

<https://www.adafruit.com/product/1911> *Buy*

<https://www.adafruit.com/product/2153>

<https://www.adafruit.com/product/618>

Find 1 analog input sensor that is not pots or photocells

<https://www.adafruit.com/product/3954> (Buy Now!) *Also include 1 x [Silicone Elastomer 4x4 Button Keypad - for 3mm LEDs](#)

Find 2 gadgets that don't seem to fit in these other categories

<https://www.adafruit.com/product/491> *buy*

<https://www.adafruit.com/product/3429> *buy*

Power Supply

[ALITOVE 5V 3A 15W AC 100V~240V to DC Power Supply Adapter Converter](#) *buy 2 packs*

Other Wires

<https://www.adafruit.com/product/4209> (for the touch sensor)

Roles:

Zachary: LED Display Module

Steven: Launchpad

David: Alphanumeric backpack

Zack: Touch Sensor

Measurements:

Ex: (length x width)

Box (6 in x 6 in)

LED Display Module (5.2 in x 1.3 in)

Launchpad (2.4 in x 2.4 in)

Touch sensor (2 in x 1 in)

Speaker hole (0.8 in)

2nd small display (2 in x 1 in)

Arcade Button #1 (1.2in)

David's button (0.94 in)