



ART 106

Final Proposal

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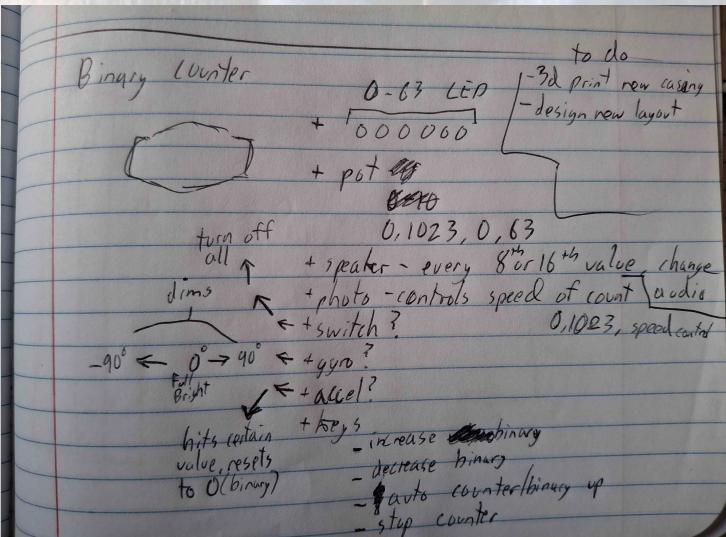
Initial Idea

- Make a Binary counter with added features
- Was to use all components that had currently been introduced to us
- End Goal - Have manipulatable

LED

Binary

Display



Binary Counter

speaker, photodiode, switch, gyro, accel, keyboard, pot, LED

- + key 1 = start counter
- + key 2 = stop counter
- + key 3 = increase counter
- key 4 = decrease counter
- + pot = set binary value
- + switch on = system active
off = system off

+ gyro =

+ LED_s =

+ accel = certain shake value = reset counter to 0

+ photo cell = controls pace of counter

+ speaker = {0-15, 16-31, 32-47, 48-63} = each have different song

+ microphone = ?

Binary / ASCII keyboard

Shift + logic

repeat as needed

start recording

input binary for letter

stop recording

store

open stored

output binary word, letter by letter, delay between letters

dump stored

Update after speaking with Professor

- He didn't see my idea as a performance
- Suggested 2 ideas
 - That there be a output of the binary input
 - Binary to Ascii to display text on a screen
 - That speaking into the device registers different note
 - Audio to Binary to Ascii to display text on screen
- This requires me learning new components and features

Materials needed

- Small screen as display (borrowed from classmate)
 - To display text
- LEDs to display binary (bought/on the way)
 - To show binary
 - Could also be LED strip to make easier (borrowed from Professor)
- Microphone (bought/on the way)
 - To pick up audio
- Toggles
 - To trigger LEDs