

OUR TEAM

HARRISON TRINH

- Incoming freshman at UCSD
 - EE Major





KOREY HUYNH

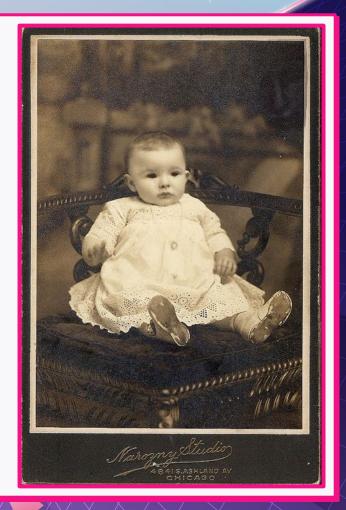
- Incoming freshman at UCSD
 - EE Major





CHILDREN

- Too addicted to their devices!
- Don't believe in the supernatural!
- Don't use their imaginations enough!





Mystifying Oracle 1 - Salutatio



The Mandela Catalogue Vol.4



interlude



The Oddity Compendium [INST. 1]



THE BOILED PLUSH PHENOMENON (MAKESHIP PLUSH ADVERT)

the boy and the bath



: THE BOILED ONE PHENOMENON



The Mandela Catalogue Vol.333

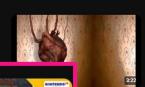
intruder alert



: The Mandel



exhibition



king.friends



[FORMER CONCEPT] love.thumper



why did you leave me here?

HAS THIS EVER HAPPENED TO YOU: ALL THE LIGHTS



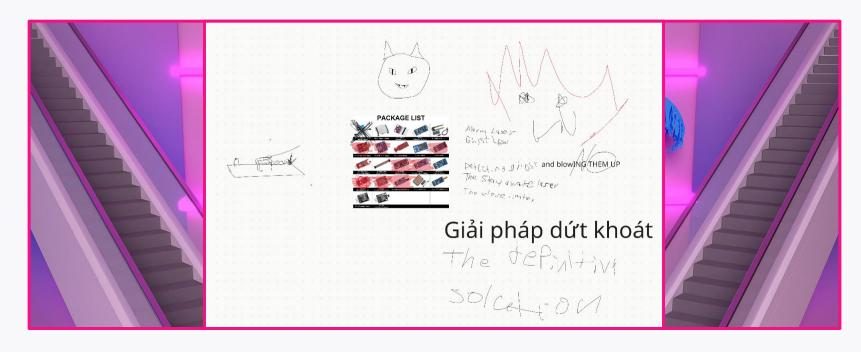
[FORMER CONCEPT] T.O.E. - starving

WHAT HAPPENED TO

WHAT HAPPENED TO CROW 64?

1M views • 3 years ago





HOW IT STARTED

We first started with a list of ideas and what sensors we wanted to use in our project.

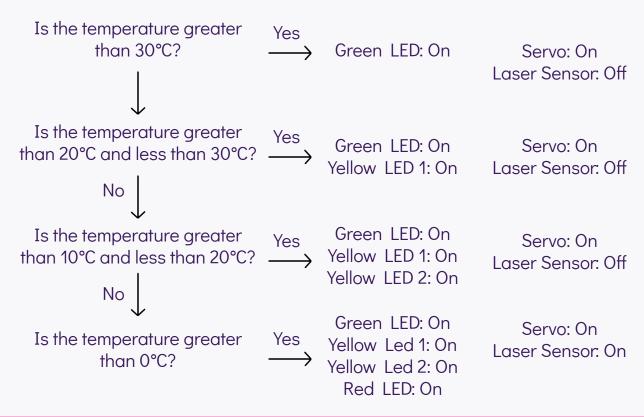
TIMELINE

WHITEBOARD \longrightarrow FREE ROAM \longrightarrow PITCHING

Our initial thoughts and ideas

We do our own things and see where our project seems to lack We pitch in new ideas in order to refine our original, raw project

A LOOK IN HORROR



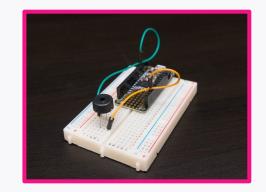
A LOOK INTO THE HORROR PT. 2

```
mport time
 import board
from analogio import AnalogIn
 import adafruit thermistor
from adafruit motor import servo
 import pwmio
TONE FREQ = [ 262, # C4
             494 ] # B4
thermistor = adafruit thermistor. Thermistor (board. A1, 10000, 10000, 35, 3950)
buzzer = pwmio.PWMOut(board.D10, variable frequency=True)
buzzer.frequency = TONE FREQ[0]
buzzer.duty cycle = 2**15
                                                if (simple > 30):
                                                    leds[0].value = True
white = digitalio.DigitalInOut(board.D8)
                                                    buzzer.frequency = TONE FREQ[0]
green = digitalio.DigitalInOut(board.D6)
                                                elif(simple > 20):
yellow = digitalio.DigitalInOut(board.D4)
                                                    leds[1].value = True
red = digitalio.DigitalInOut(board.D2)
 laser = digitalio.DigitalInOut(board.D12)
                                                    leds[0].value = True
                                                    buzzer.frequency = TONE FREO[1]
                                                elif(simple > 10):
                                                    leds[2].value = True
                                                    leds[1].value = True
                                                    leds[0].value = True
                                                    buzzer.frequency = TONE FREQ[6]
                                                elif(simple > 0):
                                                    leds[3].value = True
                                                    leds[2].value = True
                                                    leds[1].value = True
                                                    leds[0].value = True
                                                    laser.value = True
                                                    buzzer.frequency = 900
```

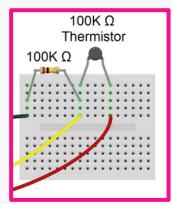
```
pwm = pwmio.PWMOut(board.A2, duty cycle=2 ** 15, frequency=50)
my servo = servo.Servo(pwm)
leds = [white, green, yellow, red]
for i in leds:
    i.direction = digitalio.Direction.OUTPUT
laser.direction = digitalio.Direction.OUTPUT
while True:
    my servo.angle = 75
    time.sleep(0.7)
    my servo.angle = 95
    time.sleep(0.7)
    leds[0].value = False
    leds[1].value = False
    leds[2].value = False
    leds[3].value = False
    temperature = thermistor.temperature
    simple = abs(int(temperature))
    time.sleep(0.001)
    print("Temperature is: " + str(abs(temperature)))
```

RESOURCES

https://learn.adafruit.com/using-piez o-buzzers-with-circuitpython-arduino /circuitpython

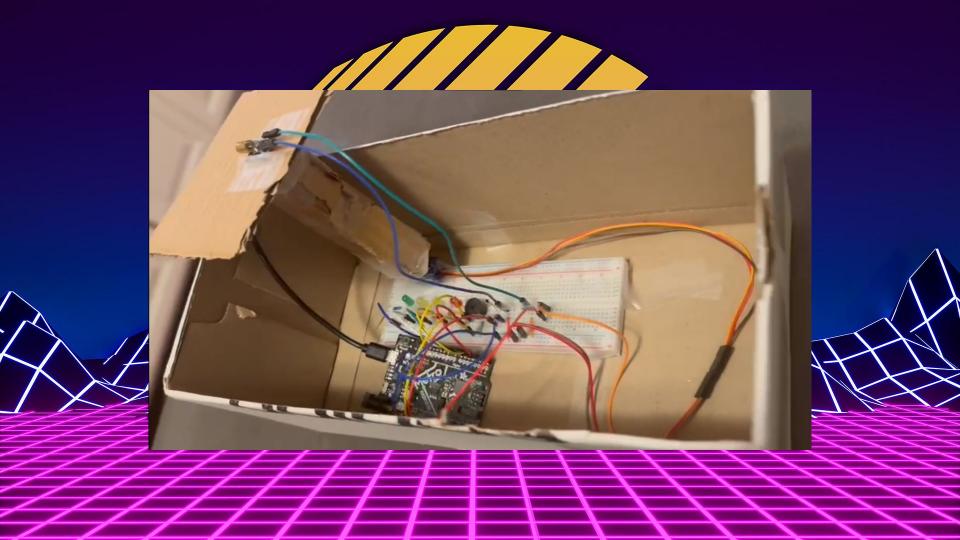


https://docs.circuitpython.org/project s/thermistor/en/latest/api.html





Huzzah!





The Ghostinator-inator

Letting children use their imaginations in a more (super)natural way!





TAKEAWAYS/FUTURE WORK

- Interplay Between Functionality and Looks
- A Lot of Editing Experience -> Future Demos
- Simplicity in Wiring, Circuit Design, and Coding

- Microphone Sensor -> Mode Switch
- Distance Sensor -> Activates Laser
- Segment Display Feedback -> More game-like + interactive



