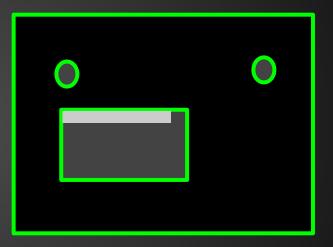
# A Synesthete's Dream

# **Team: Neon Blackboard**

Captain: Gentry

String [] members = {
klm,
Shubhank,
Willie,
E,
yMeng,
zZie
}



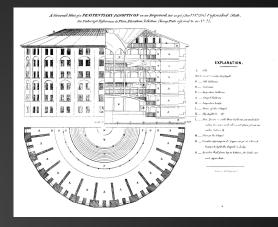
# INSPIRATION

### Synesthesia



Synesthesia is a neurological phenomenon in which stimulation of one sensory or cognitive pathway leads to automatic, involuntary experiences in a second sensory or cognitive pathway.

### Panopticon





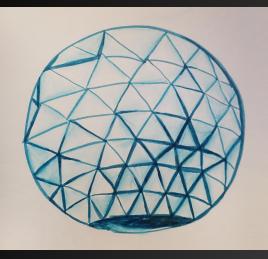
This prison model is able to operate regularly with only one watchman. It is an ideal way of controlling all the prisoners.

# CONCEPT

#### A Synesthete's Dream

is a fully immersive head mounted apparatus that transmits audio signals generated via a midi device where the audio is transmogrified into alternate sensory data for the wearer to interpret. The midi device also outputs sound for a general audience to hear. However, the wearer of the helmet is completely oblivious to the sounds they produce from the midi device and the effects it has on the world beyond the confines of the helmet. The wearer is aware only of their influence on the world by the various sensory inputs within the helmet. Inputs stimulate all senses except for hearing.

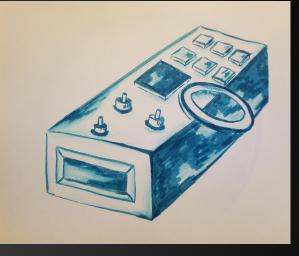
# DIAGRAM



#### Output

Visual and physical sense output built inside the helmet (e.g. LED Screen Display, vibration)

Audio output built outside the helmet (e.g noise, human voice, loud music)



#### Input

Portable controller connected to the helmet

Multiple sensors trigger the output

#### Appearance

Helmet

Opened by a Hinged Window

Acoustic Foam

Speakers

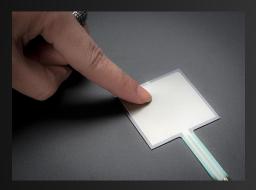
# PURPOSE

- An imitation of an amplified experience of synesthesia
- An experimental method of communication
- An apparatus with panoptic control and power
- An innovative interpretation of the relationship between the private and the public

# Example 1:

#### Disruptive Music to Hypnotic LED Display with Dramatic Vibration

## Controller



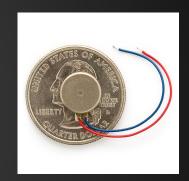
Force Sensor

### Helmet (Outside)

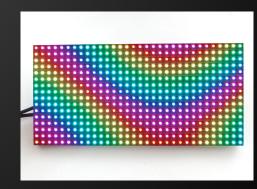


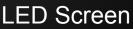
Speaker

### Helmet (Inside)



#### Vibration Motor

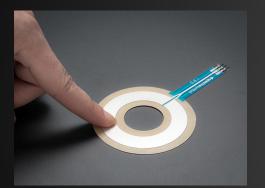




# Example 2

Sound of Scream to Color Numbers on LED Screen with Intermittent Vibration

### Controller



Circular Potentiometer

## Helmet (Outside)



Speaker

### Helmet (Inside)



#### Vibration Motor



LED Screen

# MATERIAL LIST

Input	Output	Others
Button	Speaker	Arduino
Potentiometer	Amplifier	Arduino Audio Shield
Force Sensor	LED Screen	Acoustic Foam
Flex Sensor	Vibration Motor	Wire

Cables