Smart Room Controller for the Hearing Impaired

PHILIPS

hue

wemo

ARDUINO

Environment Reading

A BME280 sensor reads the conditions of the current room.

```
Temp:70.75°F
Pressure:25.23 inHG
Humidity:31.62%
```

Hue Bulb Control

Phillips Hue Bulbs are controlled by a SparkFun Rotary Encoder. Spinning the encoder affects the brightness, while holding the encoder button down changes the colors.

```
-Lights-
Lumen: 88%
Hue: ON
```

Wemo Control

Internet connected Wemo Outlets are powered on and off by selections made with the encoder.

```
Alien <
White Fan
Tea
Blue Fan
```

sparkfun
ELECTRONICS

Visual Wake Up Alarm

A visual alarm is created by quickly flashing Phillips Hue Bulbs various color combinations. Much like a standard audio alarm, this alarm continues until a button is pressed.

```
Alarm
ON+
```

adafruit

Visual Door Knock Notifications

An Adafruit MAX4466 microphone is used to initiate a visual alert when someone knocks at the door.

```
Door
Knock
```

Scan to checkout the full project on hackster.io