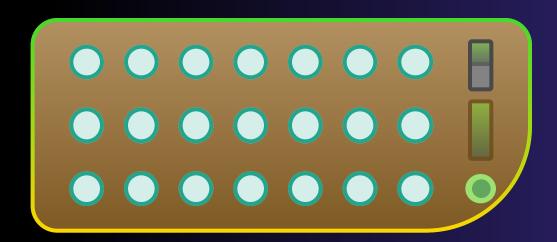


## **Initial Thoughts**

# At the start of the final, I had three ideas:







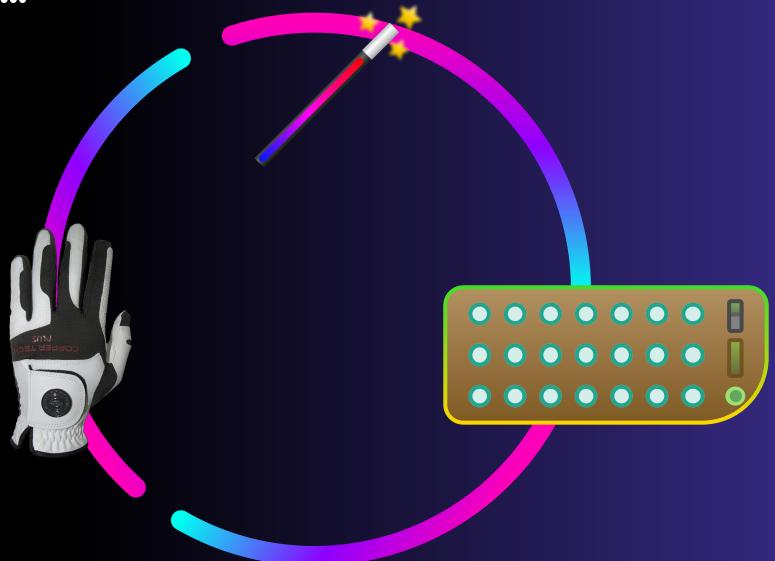
Keyboard for Game "Genshin Impact"



Magic Wand

## **Initial Thoughts**

After thinking about it....



Why not just combine those things together?

## Final Thoughts

Since really want to explore more about all those three ideas, I found out a way to realize all of them:

### Two Items:

Glove and Sword - As Magic Wand

## Same Game:

Genshin Impact

### Identical Idea:

Using motion sensor, LED, and Vibration Motor



Genshin Impact Character: Kazuha wielding the sword

### Final Thoughts

Magic Glove-Left Hand

The magic glove is worn on the left hand, with the bent sensor on the third finger. When you clench your fist, the bent sensor would detect the change in voltage and send the command to make the character in the game run fast.

Moreover, with the pressure sensor on the thumb, when you press it, it will send the command to control the character to jump.

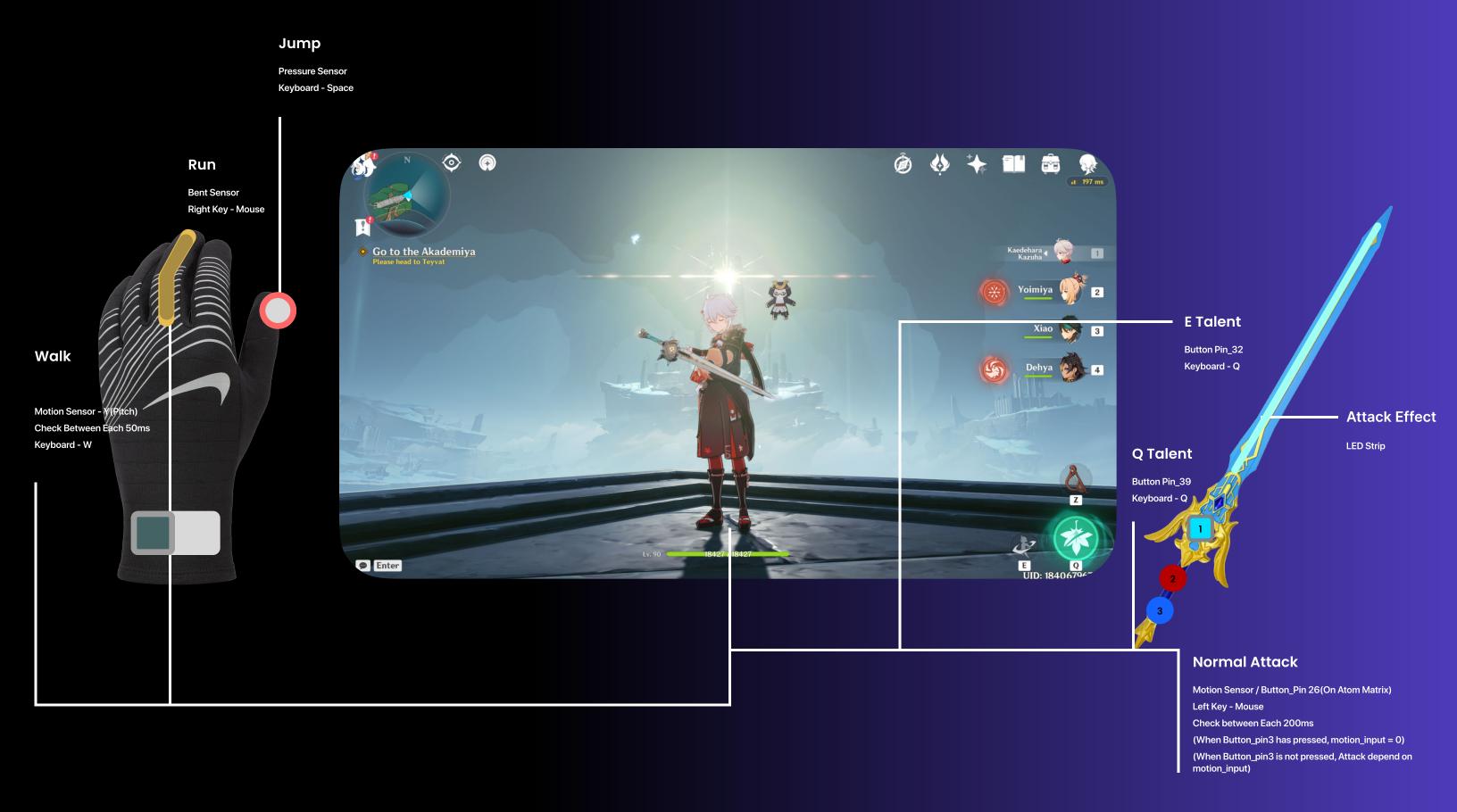


#### Freedom Sworn-Right Hand

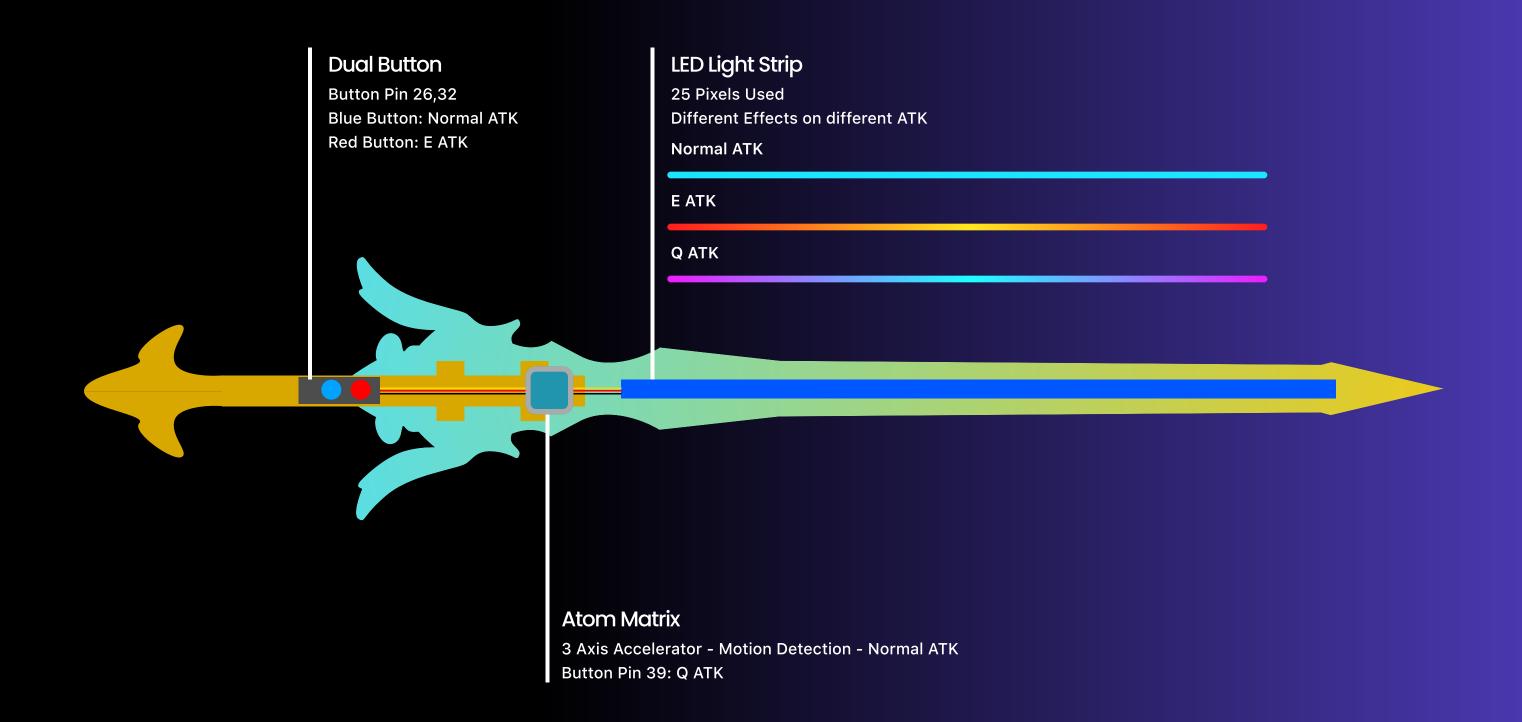
"Freedom Sworn" is the name of a sword in Genshin Impact, and it is one of the best swords in this game and also the best matching weapon to my favorite male character: Kaedehara Kazuha. There are three buttons on the sword to control normal attack, element attack, and elemental Burst Skills.

When you are wielding the sword, the motion sensor would also detect the movement and control the charact to do normal attacks.

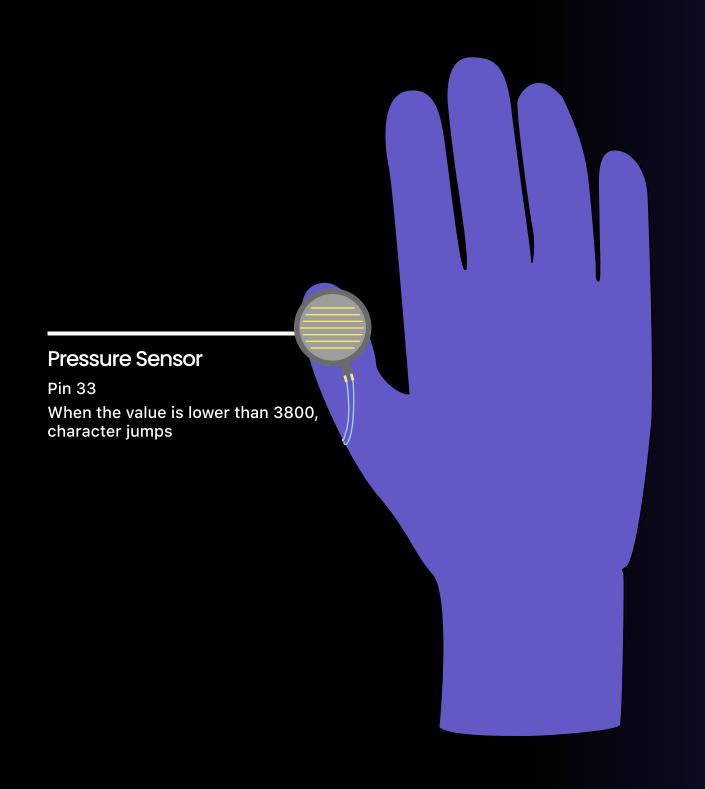
## How it works



### **Sketch: Freedom Sworn**



## **Sketch: Magic Glove**



Palm Side

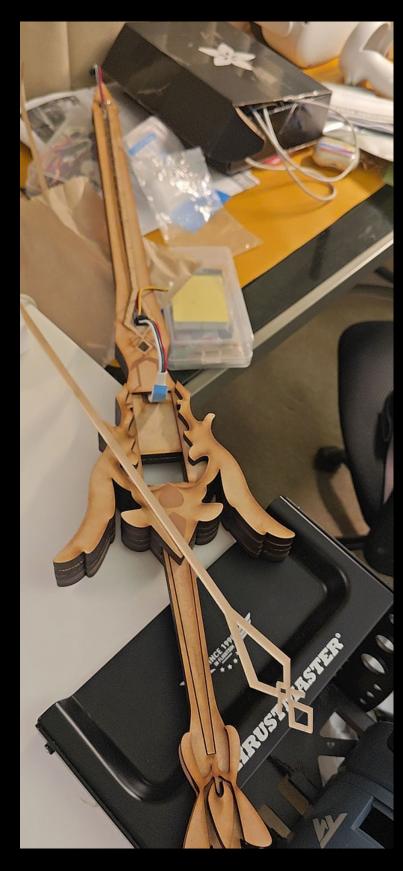
Change of resistance detected, Character starts to Run 8800 RPM Motor Pin 26 When Command of Jump / Run detected, Vibrate two times, each 100ms **Atom Matrix** 3 Axis Accelerator When motion change detected, character starts to walk 25-Pixel Screen

**Bent Sensor** 

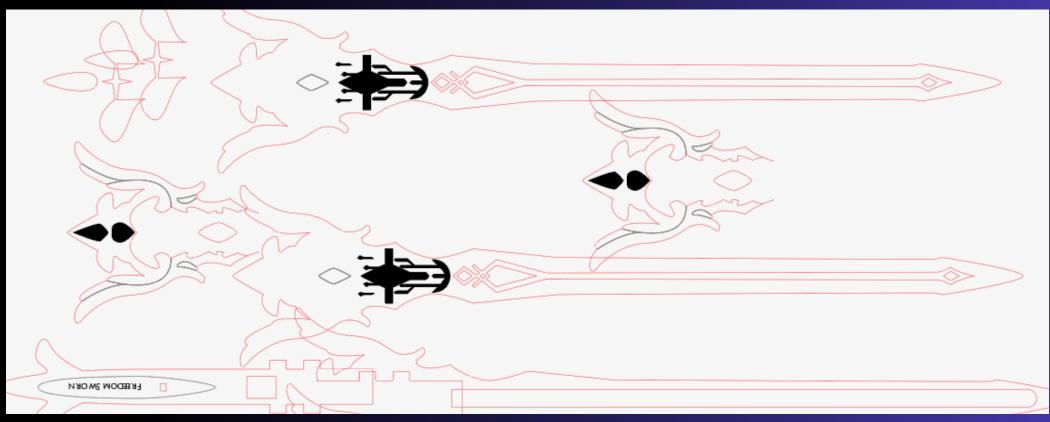
When Command of Jump / Run detected,

**Play Animation** 

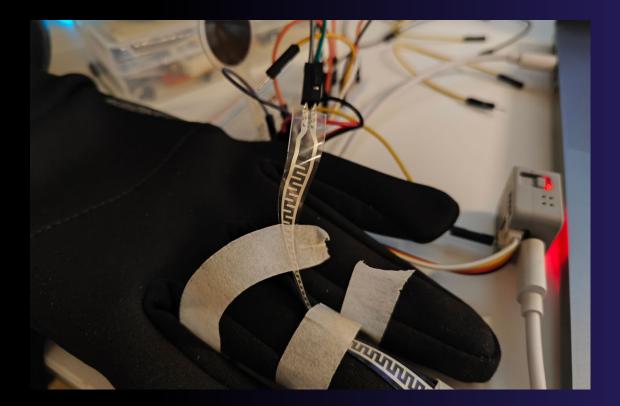
## **Process of Making**



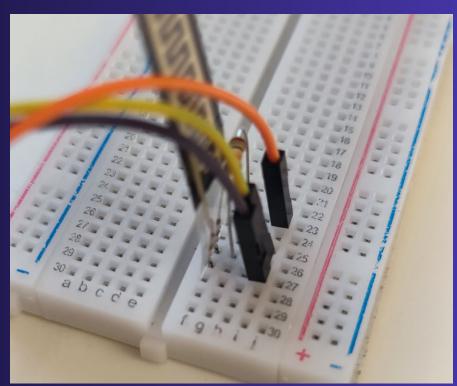
Laser Print Sword (1st Ver)



Sketch in illustrator

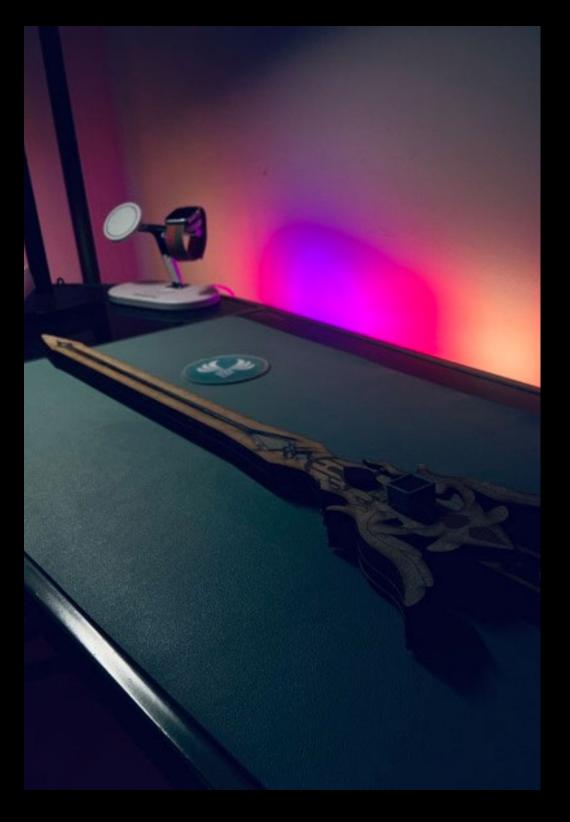


Wiring Test on Magic Glove

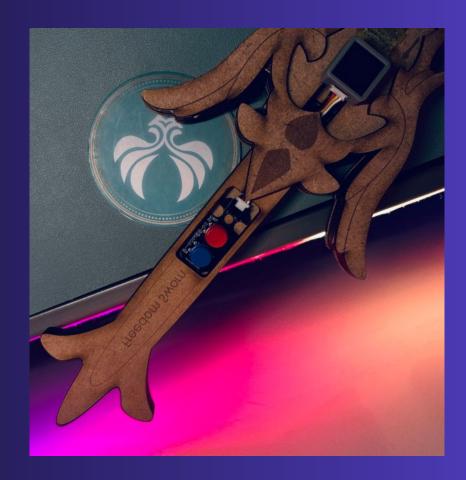


**Breadboard Wiring Test** 

# Prototype: Freedom Sworn









# Prototype: Magic Gloves







