

Advanced Prototyping Project Book

02-Form Proposal

Mood Board

Thumb Placements



Horizontal Two Handed Layouts



Mode Switch

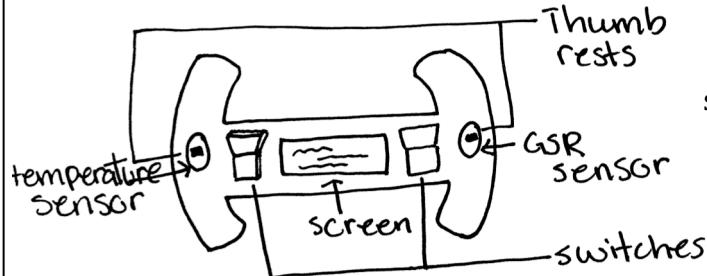


Message Style



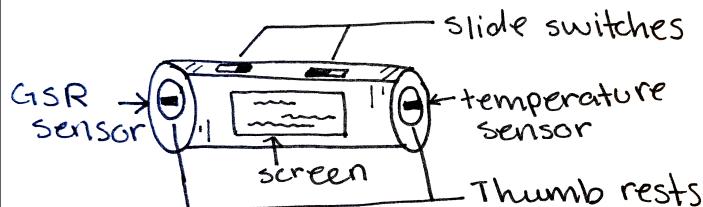
Aesthetic Concepts

Concept 1 (The “Bop It” Model)



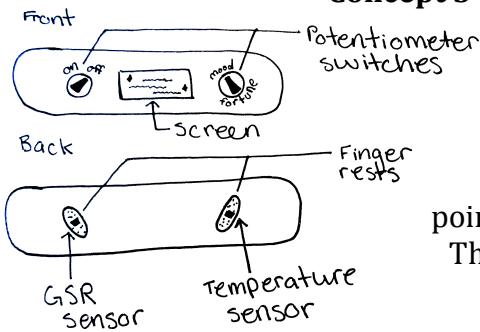
This idea is more abstract than the other two and creates an interesting, yet hopefully still comfortable hand placement similar to that of the Bop It. This design also utilizes concave thumb placement with embedded sensors, and push switches for changing modes from mood to fortune and on to off.

Concept 2 (The “Nikon” Model)



This idea uses the comfort aspect of Cameras with their ergonomic two handed shape. This design also utilizes concave thumb placement with embedded sensors, and slide switches similar to those on an iPhone for turning volume on and off.

Concept 3 (The “Roku” Model)



This concept is meant to emphasize sleek lines and aesthetic similar to the Roku and Wii remotes. This design is different than the others, because it explores the possibility of embedding the sensors on pointer finger placements rather than thumb placements. The mode switches on this model are designed similarly to oven knobs and give an interesting design element.

Concept Summary

In regards to the overall structure of the designs, the Nikon model looks to be the most comfortable to hold with its rounded handles filling the palm area naturally. However, the other two models are a bit more interesting visually with the abnormality of the Bop It model and the sleekness of the Roku model. With that, I feel that a final design might combine the comfort of the Nikon Model with the aesthetic interests of at least one of the other designs. As far as sensors go, the Roku model adds interest with the pointer fingers being the sensor touch points on the back of the device. On the other hand, a

disadvantage of having the touch points on the back of the device is that it might be less intuitive for new users and also there might be a concern of honesty whether the user is actually touching the sensors or not. So, with the functions of this device in mind, I see it better to place the sensor touch points on the front of the device and most likely for the thumbs. Considering the multiple types of switches, although the slide switches and push switches seem interesting to implement I feel that the oven-like knobs will be best. The strengths of the oven-like knobs is their aesthetic appeal which is slightly retro and gadget-y as well as their intuitive nature. Especially once choices are marked on the device, these knobs should have clear purposes to new users and hopefully make the process of using the device even more enjoyable. So, the key features of the final device will likely include an aesthetically appealing yet rounded and comfortable enclosure, sensor touch points in place for the user's thumbs, and turning knobs for the different modes.

Resources

Pencil grippers - <https://www.amazon.com/Pencil-Grip-Universal-Ergonomic-TPG-11806/dp/B004XG97DS>

Fishing reel - <https://www.terapeak.com/worth/zebco-202-slingshot-spin-cast-fishing-reel-red-push-button-great-for-kids/371417267615/>

Fib Finder - <http://techdweeb.com/FibFriend.html>

Roku remote - http://columbiaisa.50webs.com/roku2_remotes.htm

Wii Remote - <https://www.pcmag.com/article2/0,2817,2374174,00.asp>

Wii classic remote - <https://www.gamestop.com/wii/accessories/wii-classic-controller/63935?bvstate=pg:2/ct:r>

Bop it- <https://boardgamegeek.com/boardgame/133246/bop-it-extreme>

Xbox controller - <https://www.xbox.com/en-US/xbox-one/accessories/controllers/xbox-wireless-controller>

Camera - <https://www.amazon.com/Nikon-D3400-NIKKOR-18-55mm-3-5-5-6G/dp/B01KITZKDE>

Oven - <https://bigchill.com/shop/stoves/retro-stove-30-inch/>

Light switch - <https://www.bobvila.com/articles/how-to-replace-a-light-switch/#.WmjmiGU9buI>

Light Switch - <https://www.screwfix.com/p/mk-1-gang-2-way-10ax-light-switch-white/11822>

On/off switch - <https://publicdomainvectors.org/en/free-clipart/Vector-clip-art-of-on-and-off-button-switches/26178.html>

Text style - <http://moziru.com/explore/Iphone%20clipart%20text%20message/>

Meter - <http://www.campaignasia.com/article/engagement-meter-brands-ring-in-the-new-year/394698>

Magic 8 Ball - <https://www.bustle.com/articles/29320-magic-8-balls-ouija-boards-and-6-more-totally-inaccurate-fortune-telling-methods-we-loved-as>

Crystal Ball emoji - <http://www.emoji.com/view/emoji/789/objects/crystal-ball>