CAP OFF!

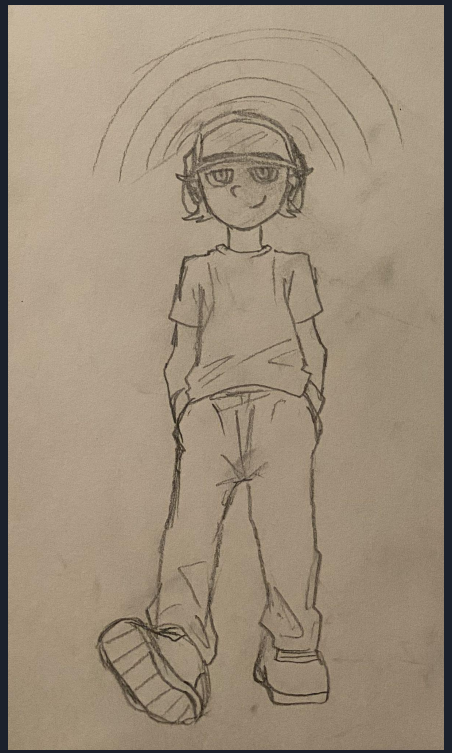
By: Tenjing, Jose, Riku

Elevator Pitch

Don’t you hate when tourists act as if they own the place even though it’s your city? Don’t you hate it when you’re trying to get to work, but tourists decide they want to be a nuisance and block the streets? We all do, but with the use of our product you can photobomb them from a distance while also giving them a warning that will deter them from blocking your path again, all while looking stylish as well.

CAP OFF!

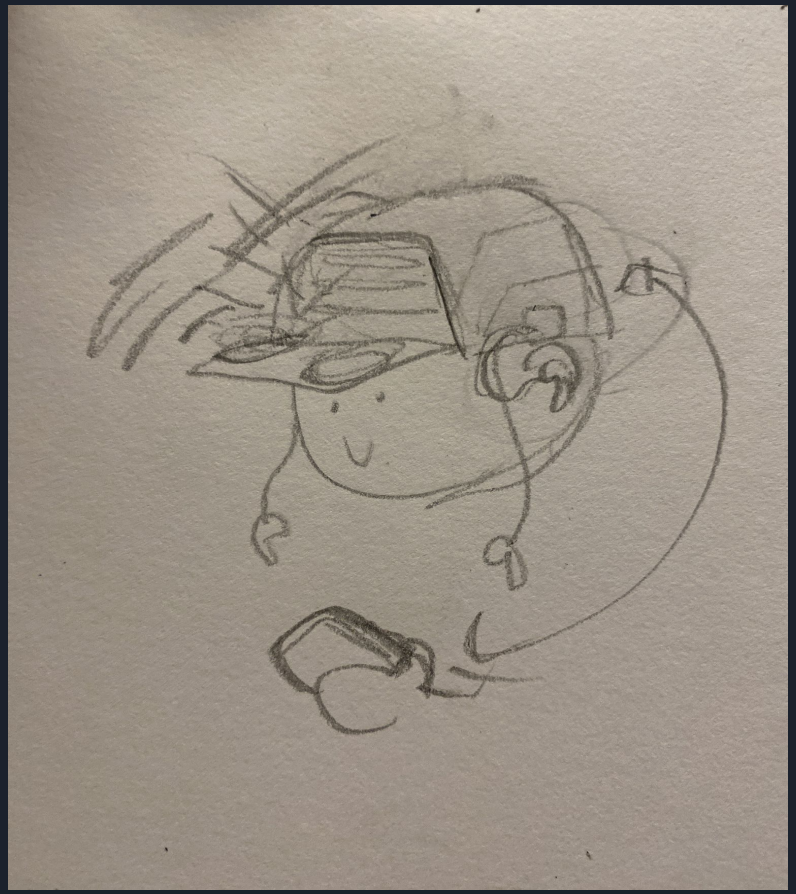
- A stylish cap that comes equipped with speakers and lights.
- Button that triggers flashing lights.
- Noise cancelling earphones that once put on will blare a warning at the tourists.



Precedent Research

- Took inspiration from existing products such as the Bluetooth beanie, Atari speakerhat, and the Headlamp Beanie.
- We took the design idea of having the speakers built into the brim from the Atari speakerhat.
- We utilized the idea of the LED headlamp from the Headlamp Beanie.

Initial Design Sketch



- Speakers on the brim of the cap.
- LED lights on the front of the cap.
- Compartments for wired noise cancelling earphones.
- You would have an app that would trigger both the lights and the sound.

Final Design Sketch

Sensors:

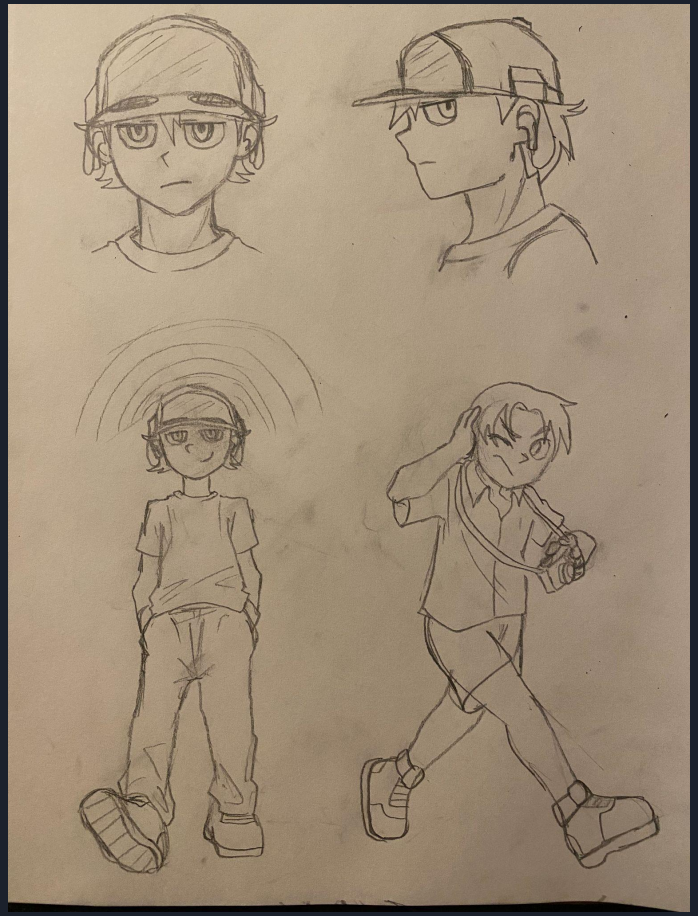
1. Button
2. In ear sensor

Actuators:

1. LED Lights
2. Speakers

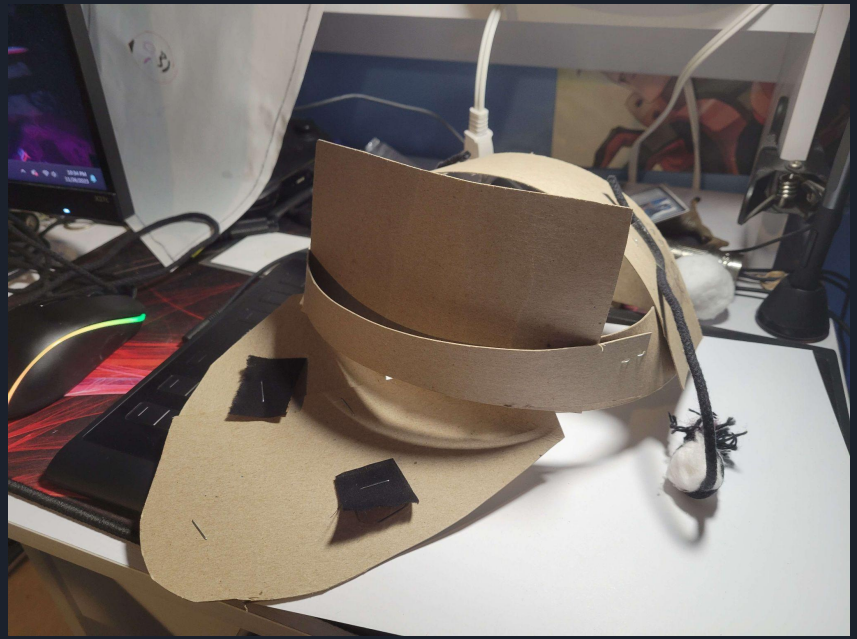
Technical Specifications:

1. Push button switch
2. LED lights
3. Noise cancelling technology (anti noise)
4. Proximity sensors
5. Speakers
6. Rechargeable Batteries



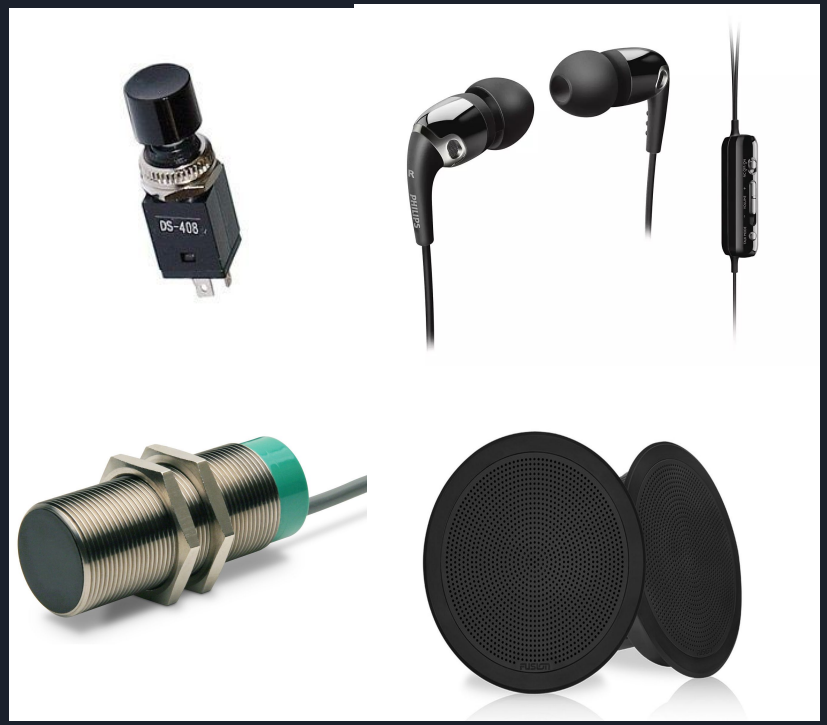
Prototype Design: p5.j5

Physical Fabrication Demonstration Time



Budget for Hi-fi Prototype

- Push Button Switch: $14.99 (Set of 5)
- LED Lights/Headlamp: $19.99
- Noise Cancelling Earphones: $49.99
- Proximity Sensors: $12.99
- Speakers: $29.99
- Total Cost for Mechanical Parts: ~$130
- Budget: $200-250



How we worked as a team

- Tenjing - p5.j5 Programmer & Researcher
- Jose - Physical Fabrication
- Riku - Archivist & Project Manager

THANK YOU!