Hat clip earphones

A project by [redacted]

So what's the point

Well my good lad, my buddy, say even my great chum. The point is to reduce the issues i've found in other music listening devices for extreme sports.

Stuff like the Airpods because they are so easy to lose, or the kind that wraps round the back of your ear because that can be rather uncomfortable.

So i came to the hat clip earphones because comparatively it is much harder to lose a hat than earphones and if you lose a hat the hat most likely isn’t your biggest concern.

What were the initial design thoughts?

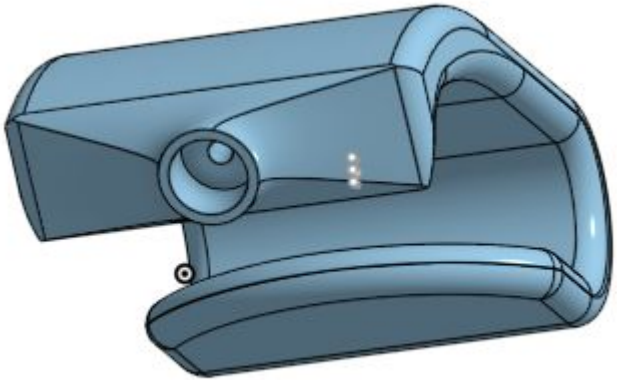
First something that would poke into the brim of your hat like a pin (lame, too much work hard to make)

Then the more current adjacent design which hooks onto the inside brim of your hat.

And finally literally the same thing with a simplified feature because printing that precise is hard and assembling multi part things were hard the hat clip earphones you will see today.

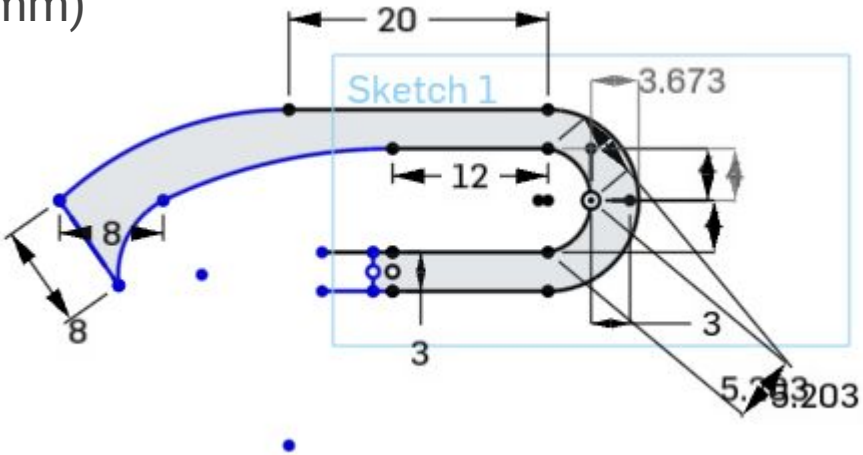
Overview images

These consist of the main hat clip and fixture to tie string onto and glue in place (for initial testing)

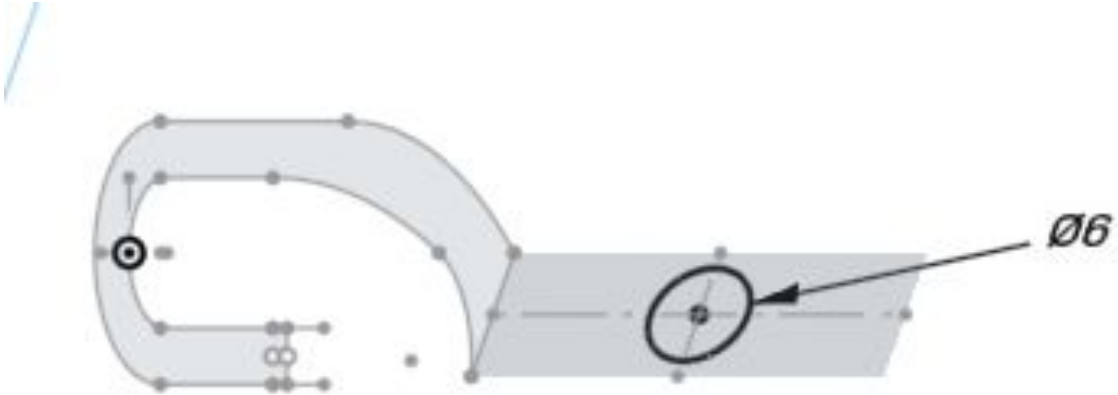


And now many design tabs

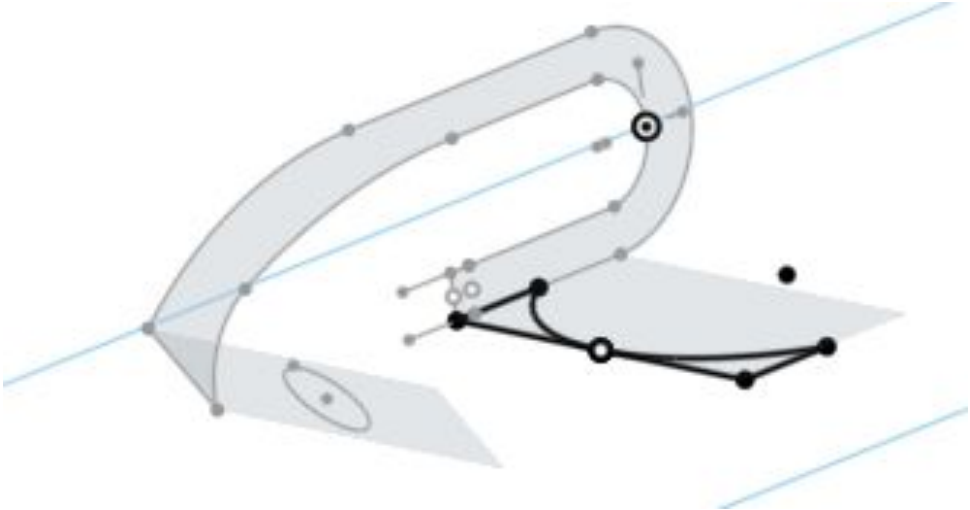
We start with our initial sketch which was extruded to make the simple body shape of the hat clip. (dimensions in mm)



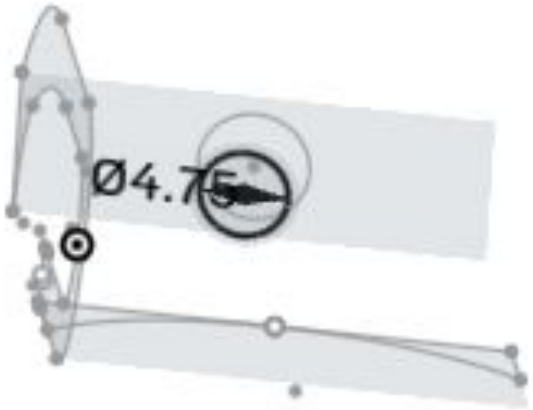
Then we needed the broad circle for where the pin would be inserted which was extruded outward



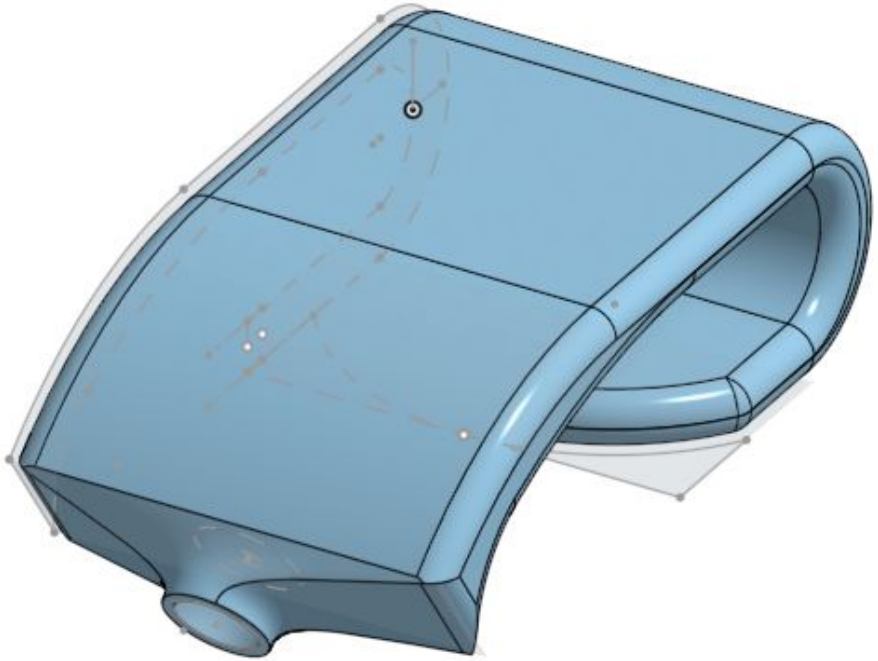
Then for a less blocky look i rounded out the internal part and also because sharp edges looked bad.



Then I added the hole to the 2nd extrusion



And now here's the final body of the main part again with sketches for reference to how they were applied.



Now how do I plan to test it

Get some anonymous skaters to try it in a controlled environment and then fill out a neat little survey.

The end. any questions?