Contextual statement

Introduction:

The mask I made divided into two parts, which is technology and design. The technology is about interacting digital component with people; for example, can any human behaviour relate to the working of digital component. The design is about how to design and what to design. The judgement on the quality of the object depends on how well is the integration between and whether the interactivity happen.

About technology:

The technology is about activating digital component by action. In specific, it is a complete circuitry included the sensor, GEMMA and NeoPixels. The NeoPixels is as a lion’s eyeball, which will get activated as soon as people touch the force sensor on the surface of the mask. What interactivity I made relate to any action on the lion is by touching the sensor beside the mouth, which is similar to sometimes when lion scratches the face with pad and all Catamount share the same feature. The idea behind the technology is by watching online video. All digital component placed inside the mask, to achieve that, it requires me to design the cover as big as possible to make sure it has enough space to place them. Correspondingly, I bought the portable and wearable component to avoid no space. The way I put the digital component is sticking all wire by blue tack and the to make convenience if there is no need for technology. One thing I am uncertain how would the curitary be like regarding wiring and connecting, to reduce as many problems as I might meet, so I finish the technology part after design.

About design:

Regarding design, what I did is to achieve a full mask by 3D printing. Because I am, lacking the experience of making wearable stuff. So one of the solutions is by using cardboard or clay model. To save the time spent on building, this time, I choose 3D printing. On the one hand, making something by 3D printing is a way experiencing technology. On the other hand, as I am currently taking digital fabrication, so I want to do an experiment on prototyping. The process is a big trouble, which spends more time than I devote to do some coding for the digital component. The way I approach the design is 3D modelling on Rhino. The reason why I use 3D printing is that the 3D printing will be a major way for production, which promotes my efficiency instead of spending a lot of time on hand making. The elastic band can wear the mask, so I dig a rectangular hole while doing 3D modelling. At the same time, to ensure people wear comfortable, I add two pieces of foam on the top and base to give face with support. Overall, this mask is enclosed except for the opening eye hole for NeoPixels. The NeoPixels coded into a red colour, which on one hand imitate the image of lion’s eyes in the darkness, on the other hand, make the mask more futuristic. Accordingly, I painted the mask with the black colour to cover the flaw from making, and I want to create a dark and dangerous role.

References:

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