

*CUTTLEFISH INTELLIGENCE EXPERIMENT*

*UCL/SEA LIFE CENTRE BRIGHTON*

*DEVELOPING PROPOSALS DOCUMENT*

*MAY 2017*

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# BRIEF AND AREA CONSTRAINTS

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## THE BRIEF:

To design, build and install a self-contained interactive experimentation combining videos displayed on a monitor and eye tracking sensors.

A robust housing combining simple shapes and themed graphics. Design for ease of adapting the theming to other styles to fit with future installation locations.

A single peephole area to look through, steps installed to allow children to interact as well. The possibility of a direct feedback screen on the interactive to allow the public to view the eye tracking feed. A maintenance hatch to allow access to the monitor and sensor inside.

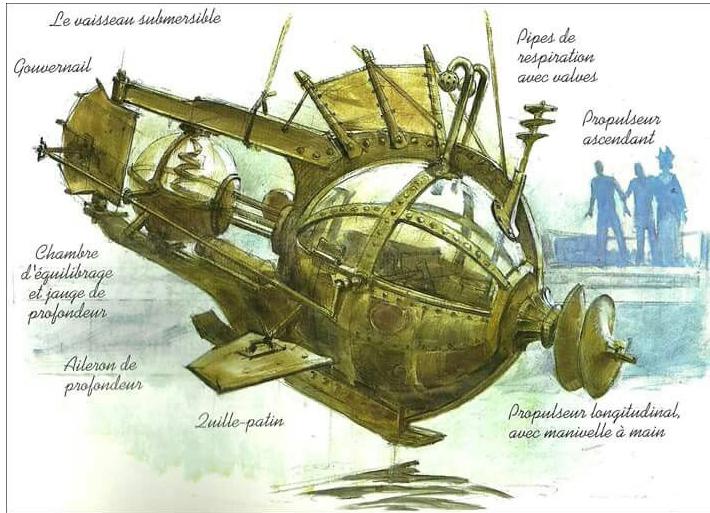
## THE AREA:

- Sea Life Centre Brighton
- The vaulted corridor - cuttlefish tank
- One third of the cuttlefish section - 850 mm wide
- Backboard with void behind
- Measurement from front face of backboard to the end of step - 800 mm

## CONSTRAINTS:

- Low level angle topped stone wall section - cannot be fixed to
- Single step before stone wall - cannot be fixed to
- An extra fixing point to be made the other side of the backboard (to be explored on site visit)

## THEMING EXAMPLES



Key theming points for the initial installation are old brass/bronze coloured scuba helmets and steampunk style underwater ships. Panelling joints and large domed fixings. This look and feel will be used in a way that it can also be adapted for future installation area themes.



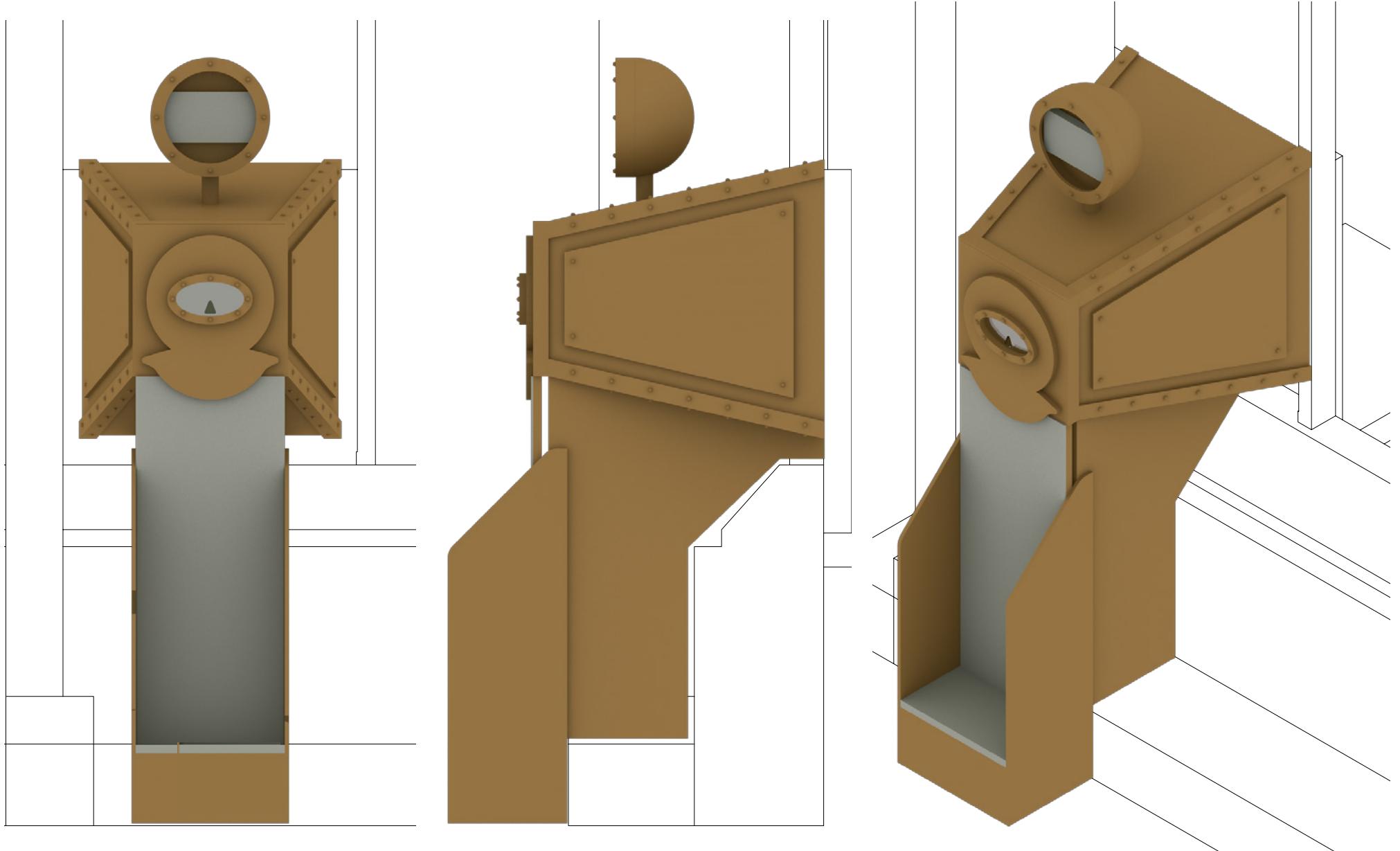
## FIRST FOUR INITIAL DESIGN OPTIONS

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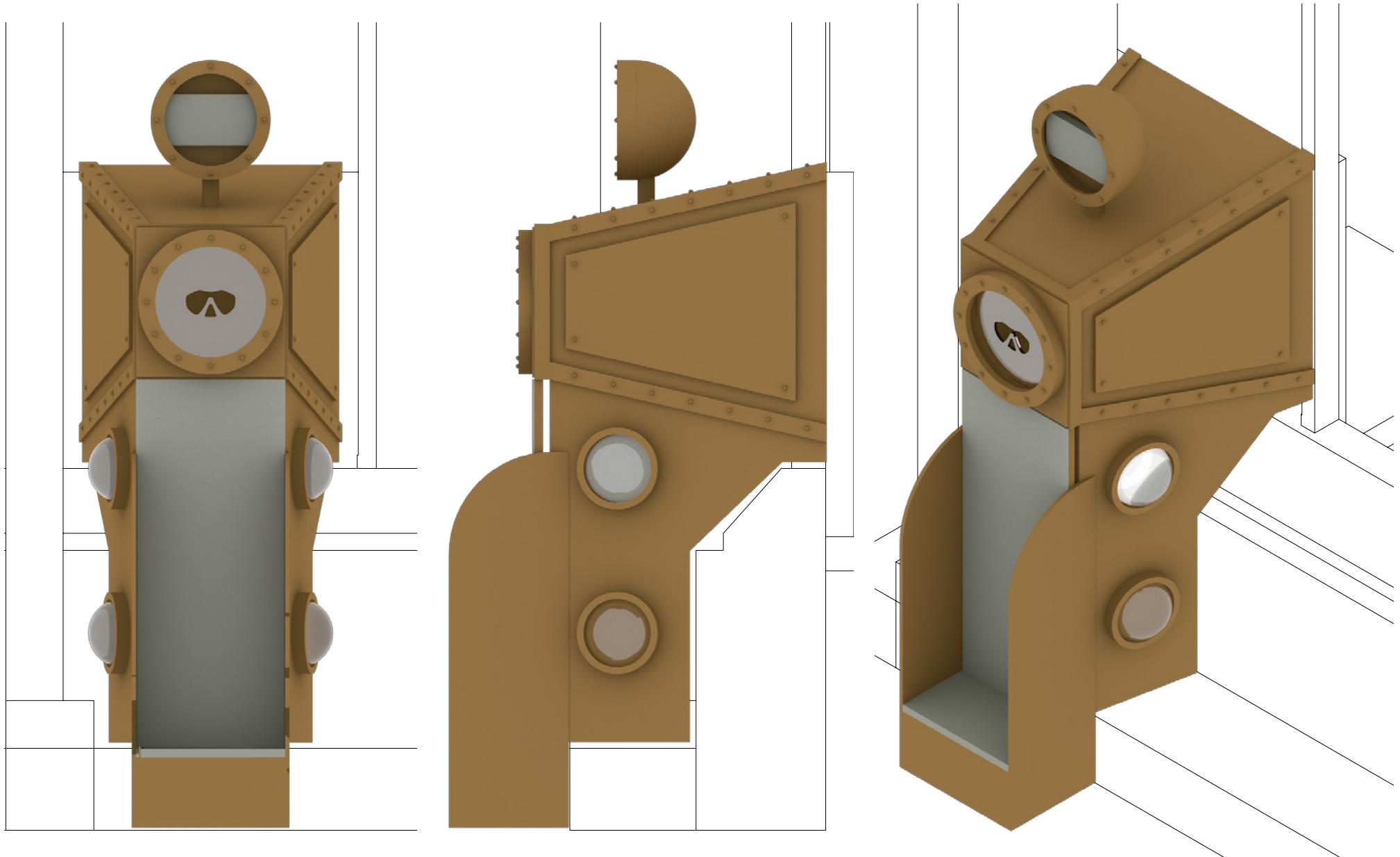


## DEVELOPED DESIGN OPTION 1

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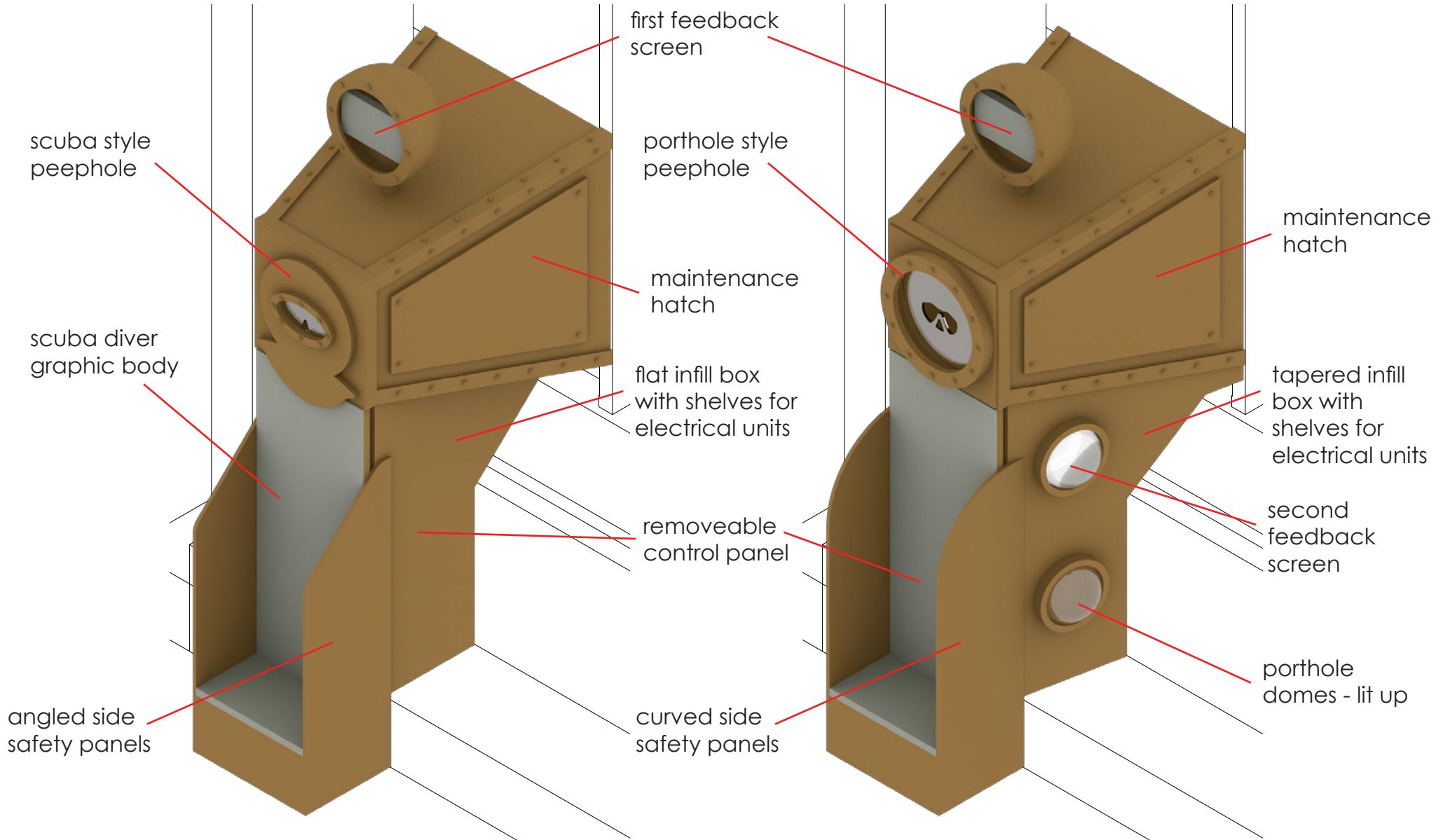


## DEVELOPED DESIGN OPTION 2



## DEVELOPED DESIGN FEATURES

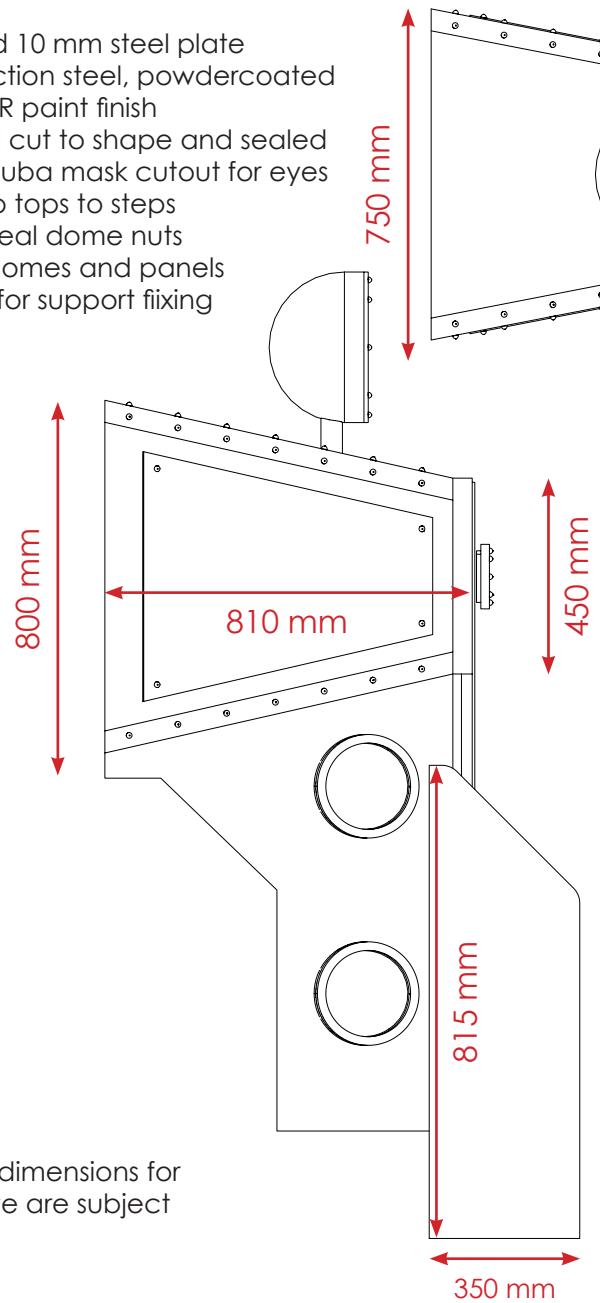
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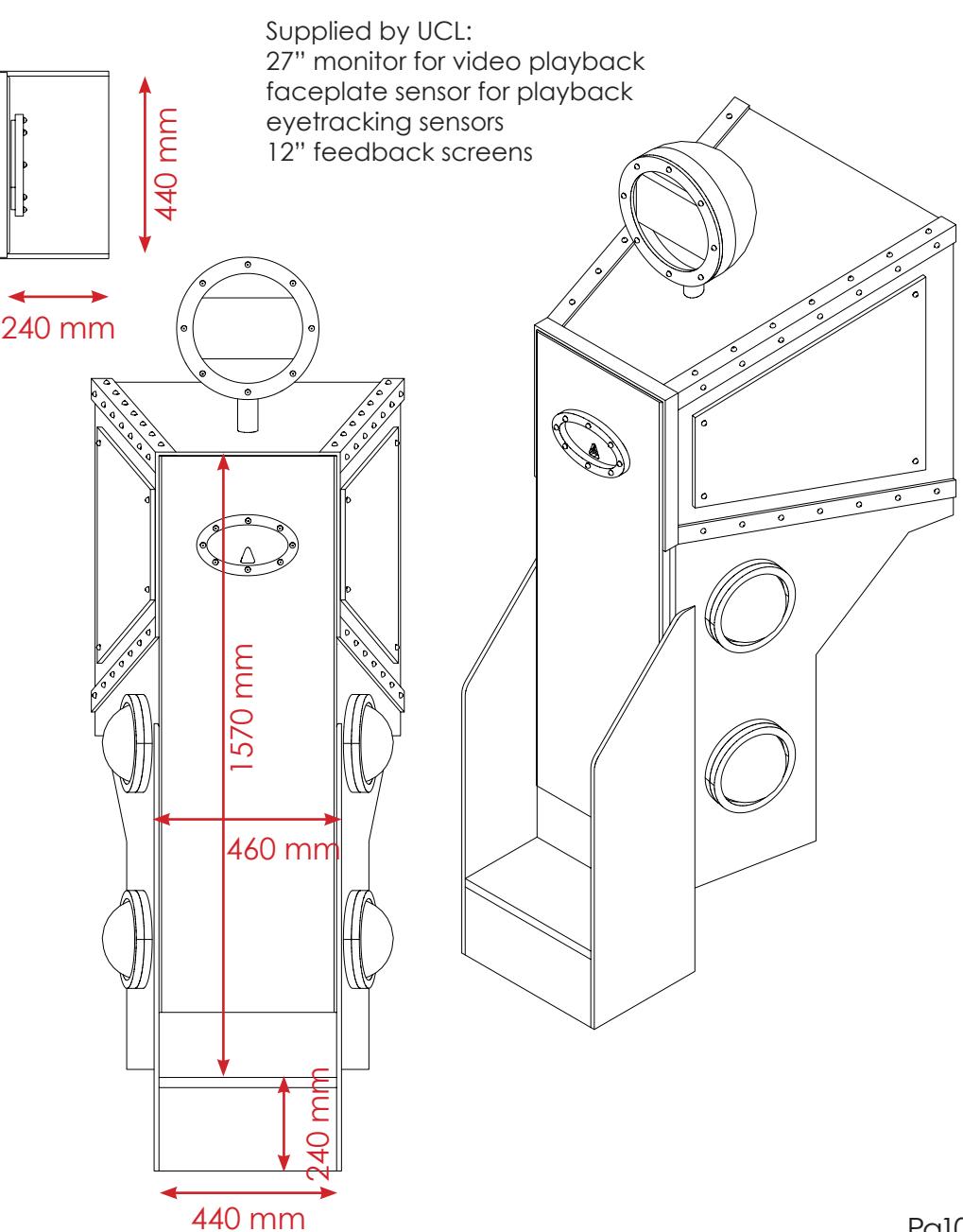
# DIMENSIONS AND MATERIALS

## Materials:

- Powdercoated 10 mm steel plate
- 20 mm box section steel, powdercoated
- MR MDF with FR paint finish
- Graphic panel cut to shape and sealed
- Conductive scuba mask cutout for eyes
- WISA hexa-grip tops to steps
- Theming and real dome nuts
- Clear acrylic domes and panels
- Threaded bar for support fixing



Supplied by UCL:  
 27" monitor for video playback  
 faceplate sensor for playback  
 eyetracking sensors  
 12" feedback screens



Initial overall dimensions for the interactive are subject to change.

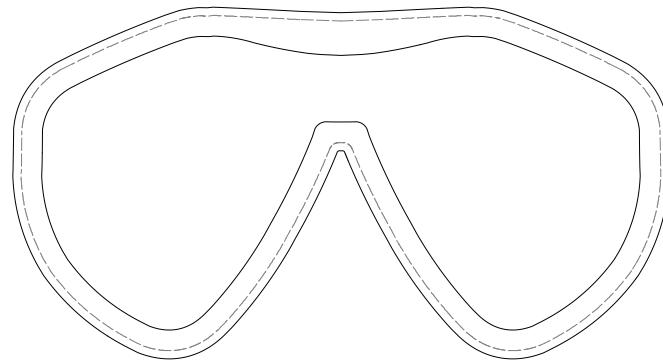
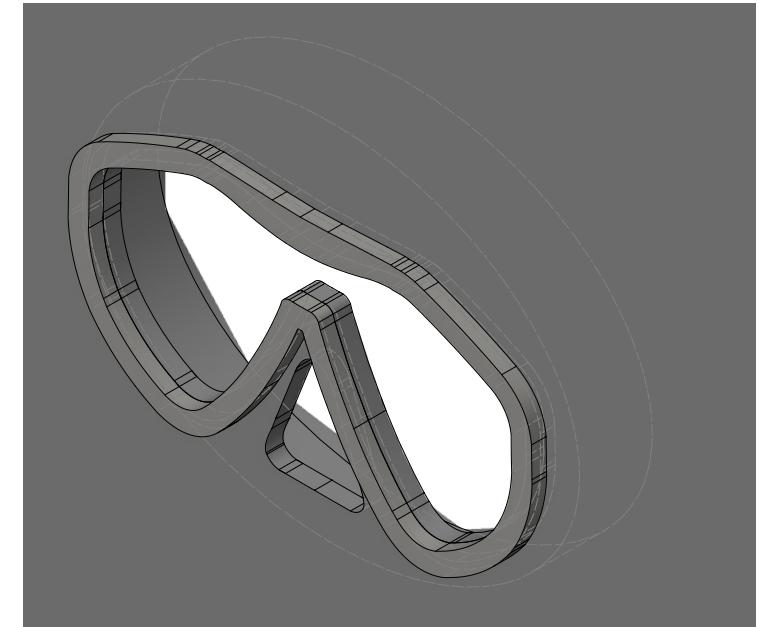
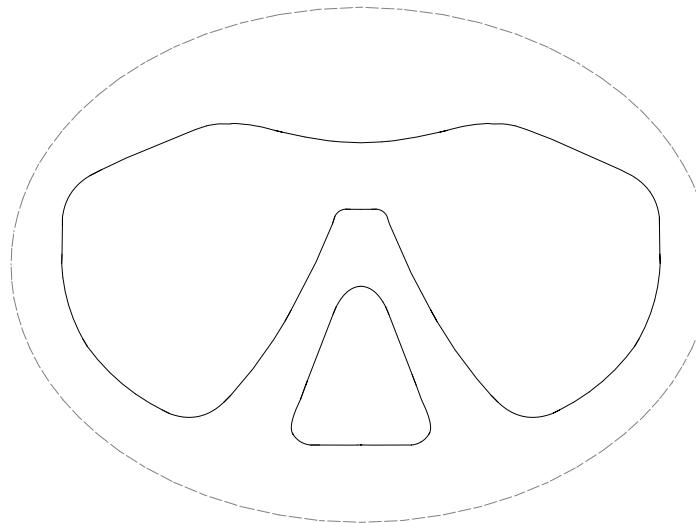
## INITIAL DESIGN MASK

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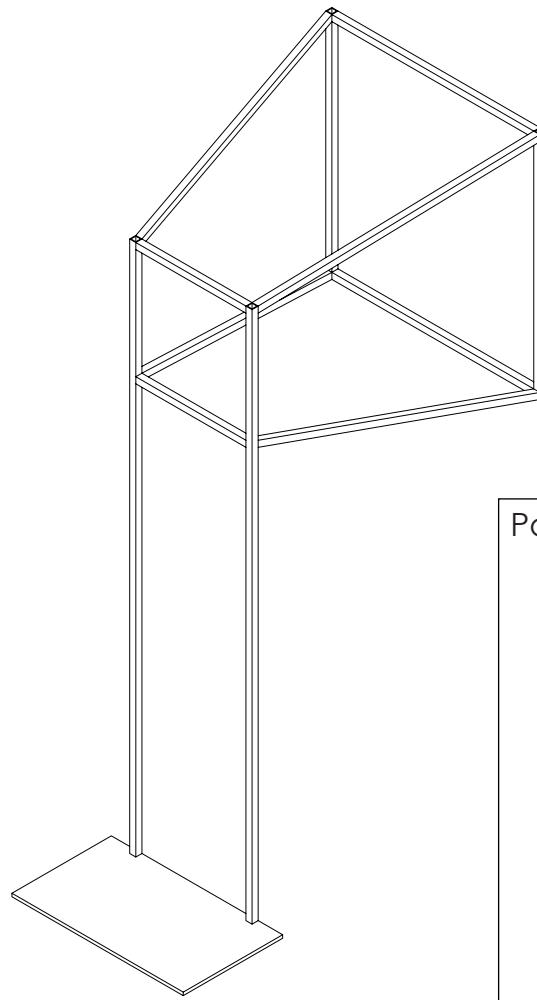
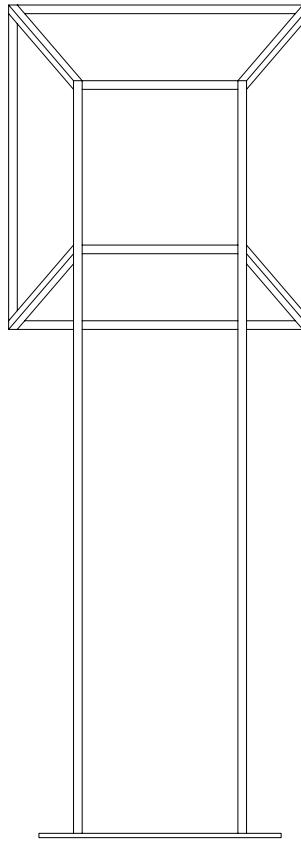
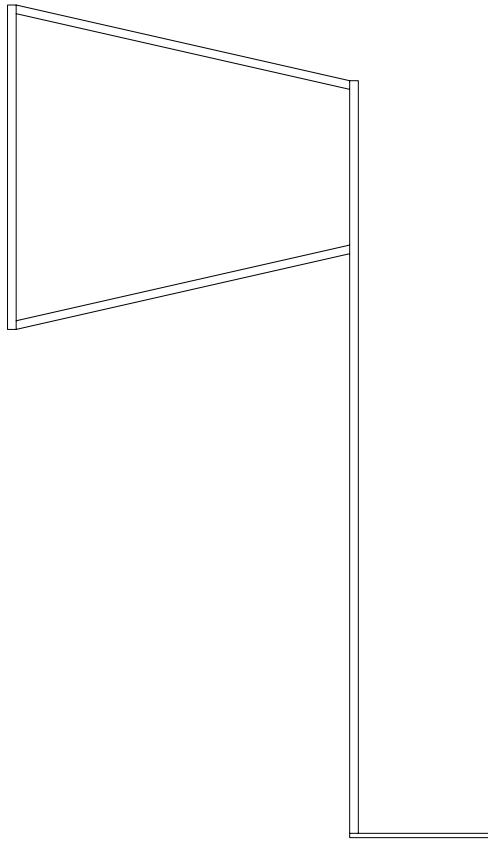
Scuba mask peepholes allow faces of varying sizes and shapes to fit into the opening. An opening for people's noses help to guide visitors to place their face into the correct position.

The top profile around the eyes will be a conductive material to give the opportunity of sensors to be included to begin the video playback when the sensor is triggered.

The position of the cutout and top panel will be inline with the graphic panel behind. The rear support panel will have an oval cutout to allow the front graphics panel to be adapted to new theming shapes, including the face panel.



# INITIAL METALWORK DESIGN



A frame will be comprised of 20 mm box section in the shape of the front panel and tapered box surround. A 10 mm thick metal plate below the steps will allow for fixing into the floor at the SLC Brighton.

Additions could be made to the frame to allow for a freestanding installation if required in a different location.

The back of the tapered box will connect through the backboard with a suggestion of four threaded bars which will fix into a simple box frame welded to a baseplate bolted to the floor behind the stone wall.

Possible Freestanding additions

