



POPPY

Design of a new head



Summary

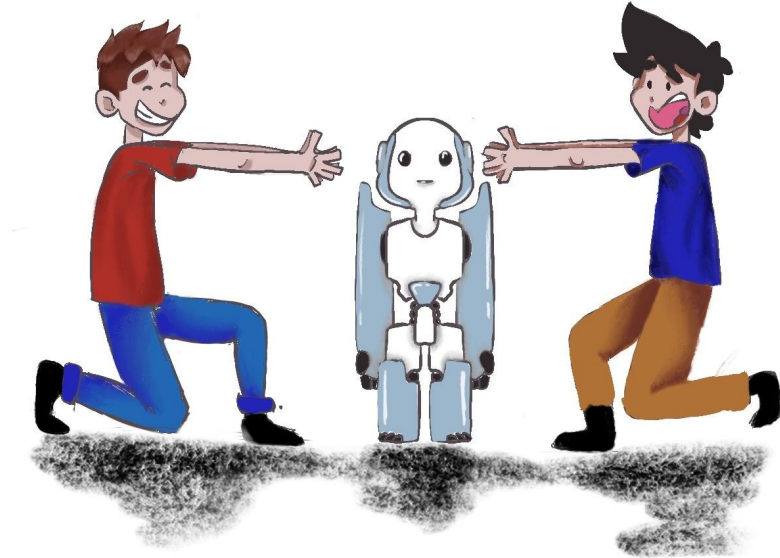
Introduction

Specifications

Choice of solutions

Design

Final render



Eléa Charpentier

Specifications

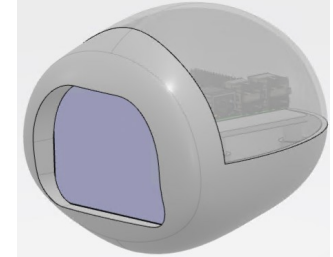
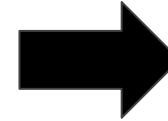
Retention of components in the head



Display 4,3"



Miniature camera

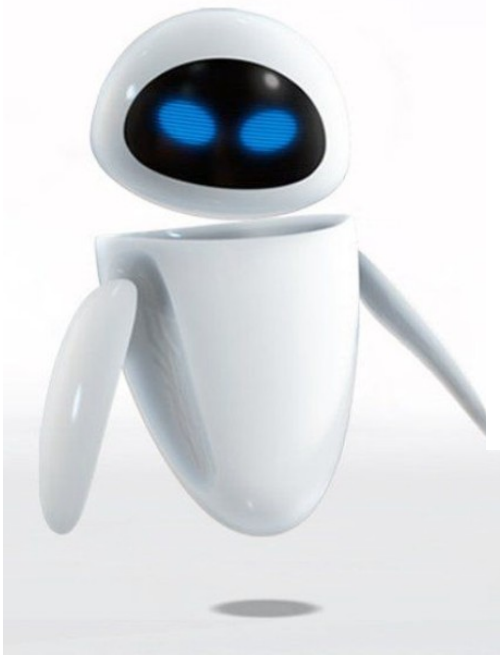


Easy access to electronic components

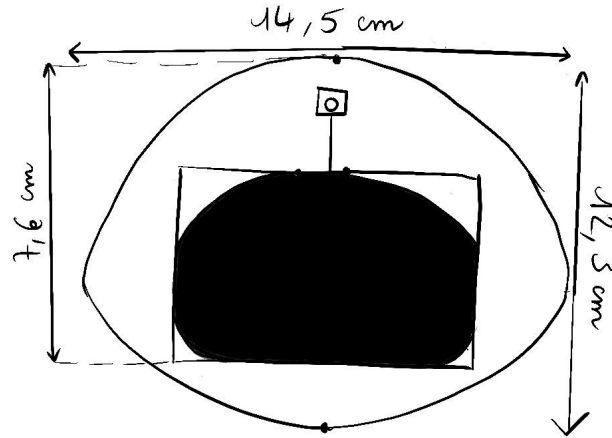


Choice of solutions

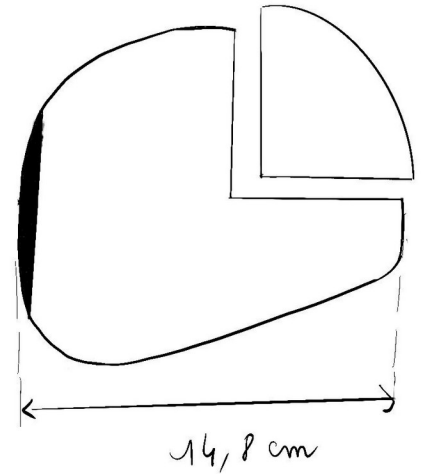
Inspiration:



From the Pixar movie « Wall-e »



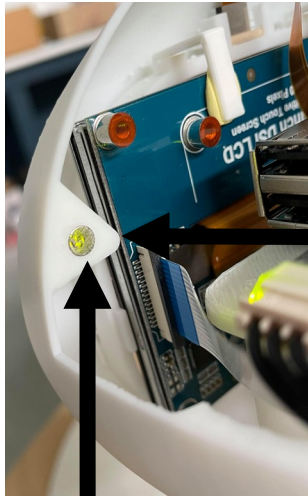
Front view



Side view

Head parts fixation with ma

The two parts of the head are fixed with small magnets

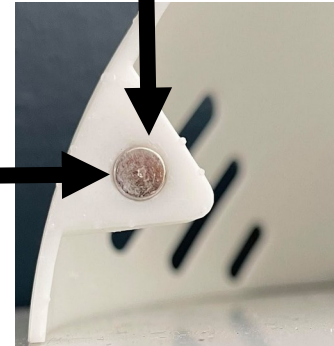


north face

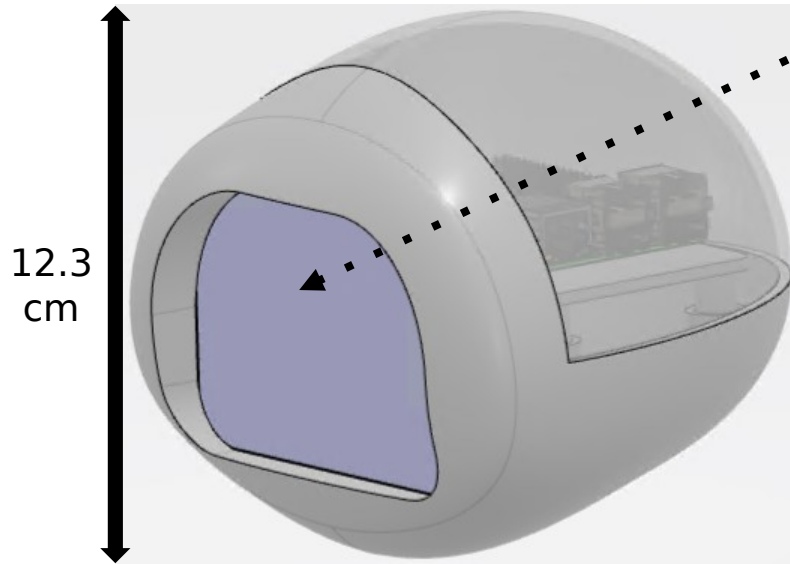
Tight fit

Tight fit

South face

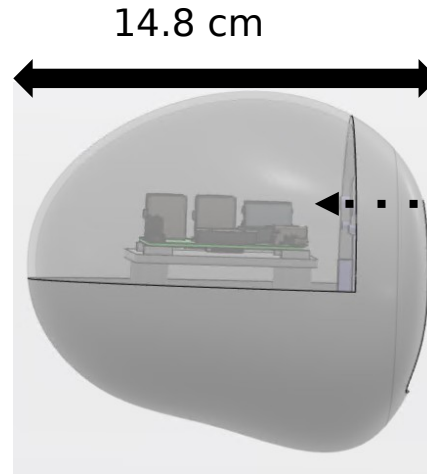
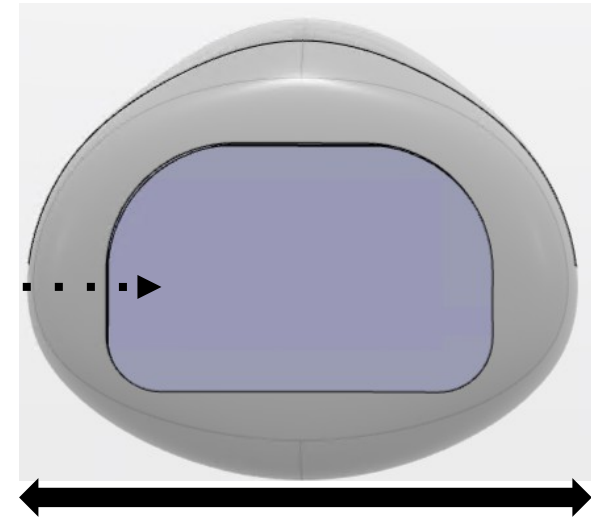


Head shape



Isometric view

Front view



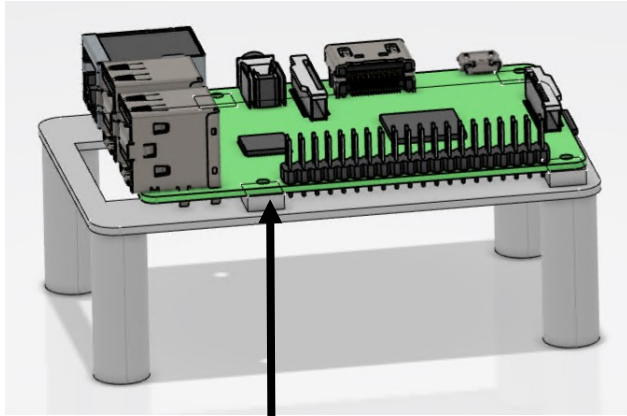
Side view

14.5 cm

Rpi 4 module

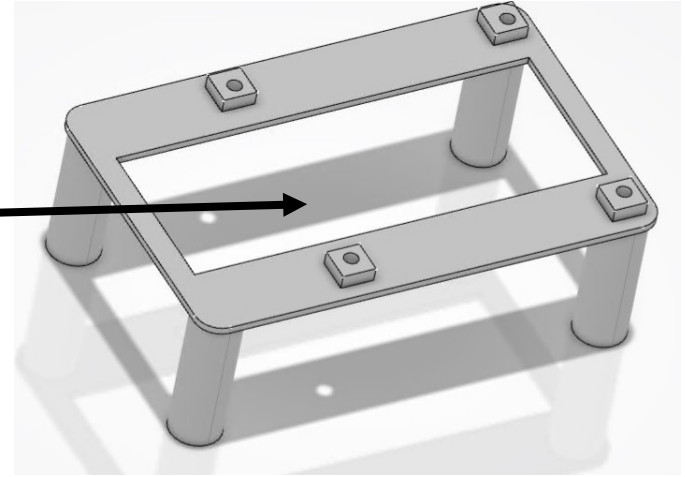
Rpi 4 integration

Raspberry Pi 4 module:

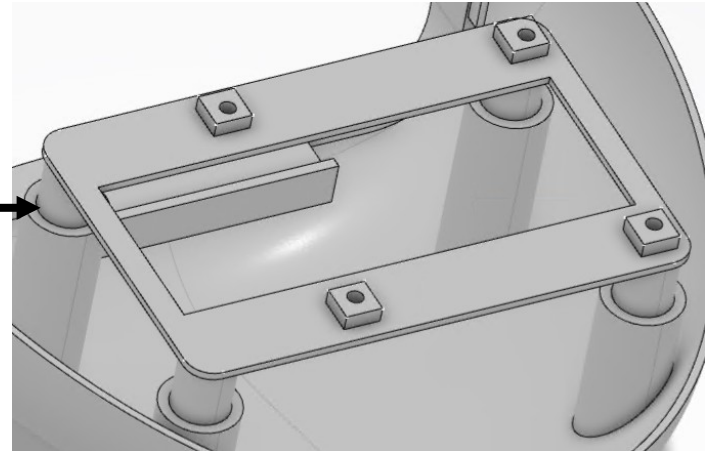


Extra thickness

connection space

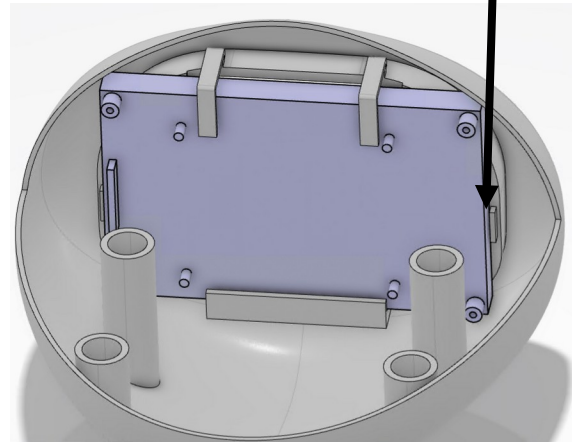
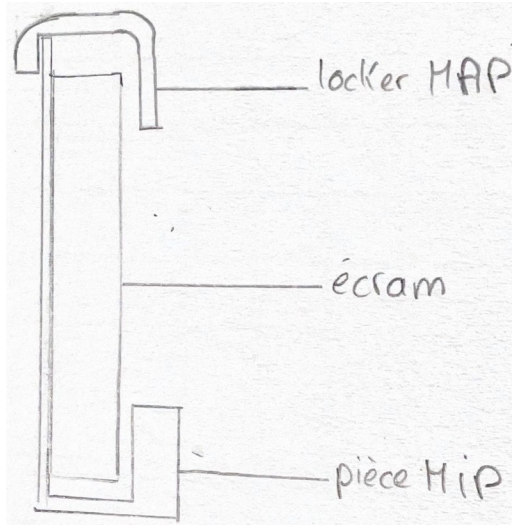


0.5 mm clearance

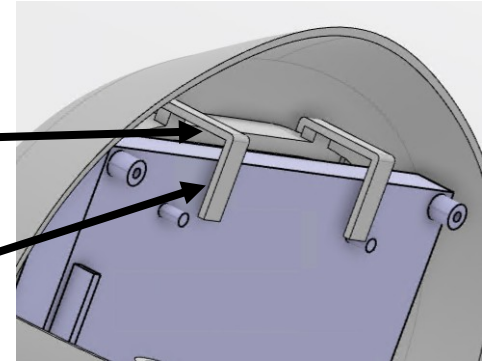


LCD display integration

LCD display:

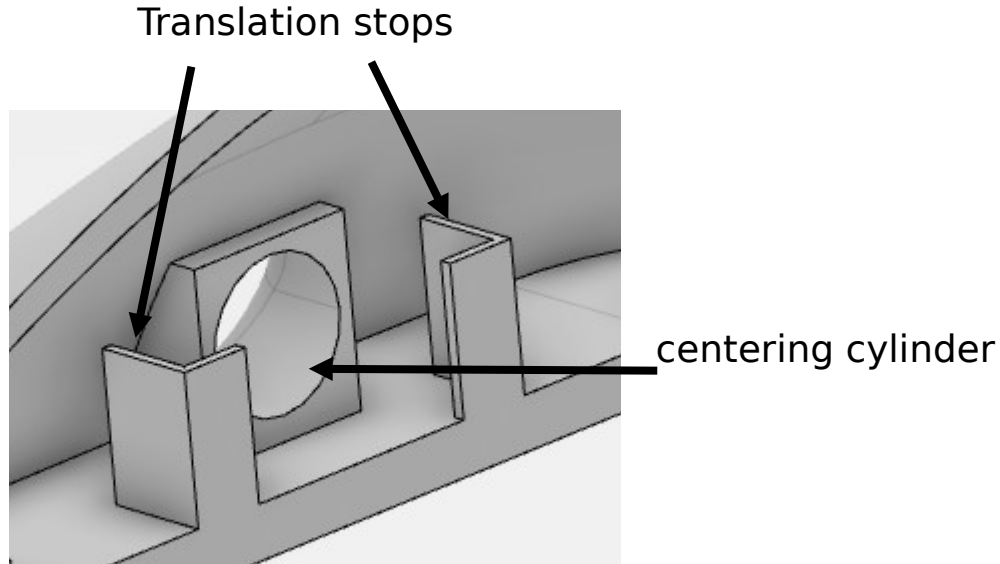


Fixation locker

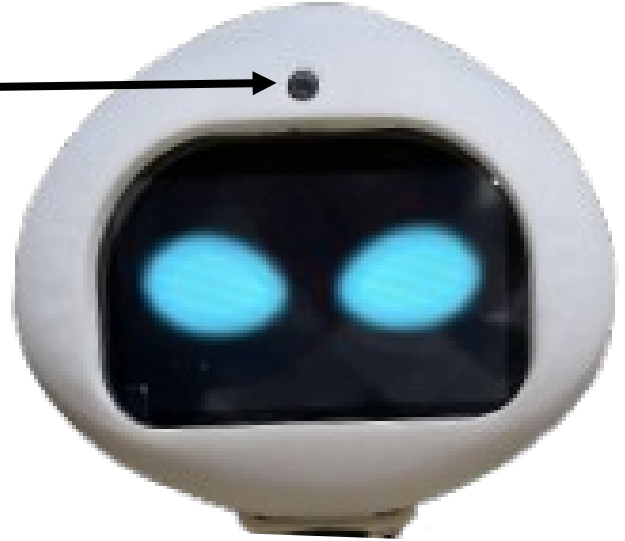


0.5 mm clearance

Miniature camera integration

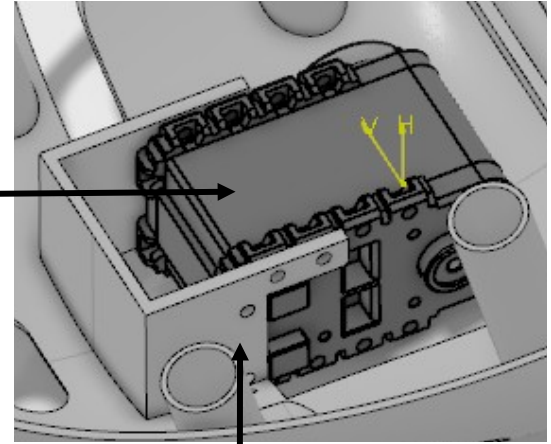


Miniature camera



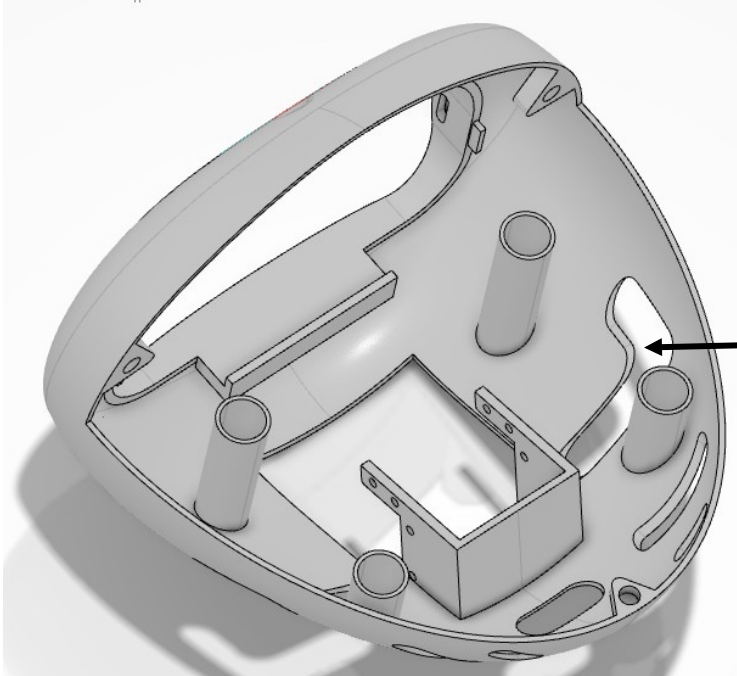
Motor integration

Dynamixel servomotor



Servomotor support

Hole (servomotor assembling)



Final render

