

Task 4

Filippa Sandberg, Ekin Ünlü,
Verner Mäntysaari and Sanni Lares



The Dragonfly

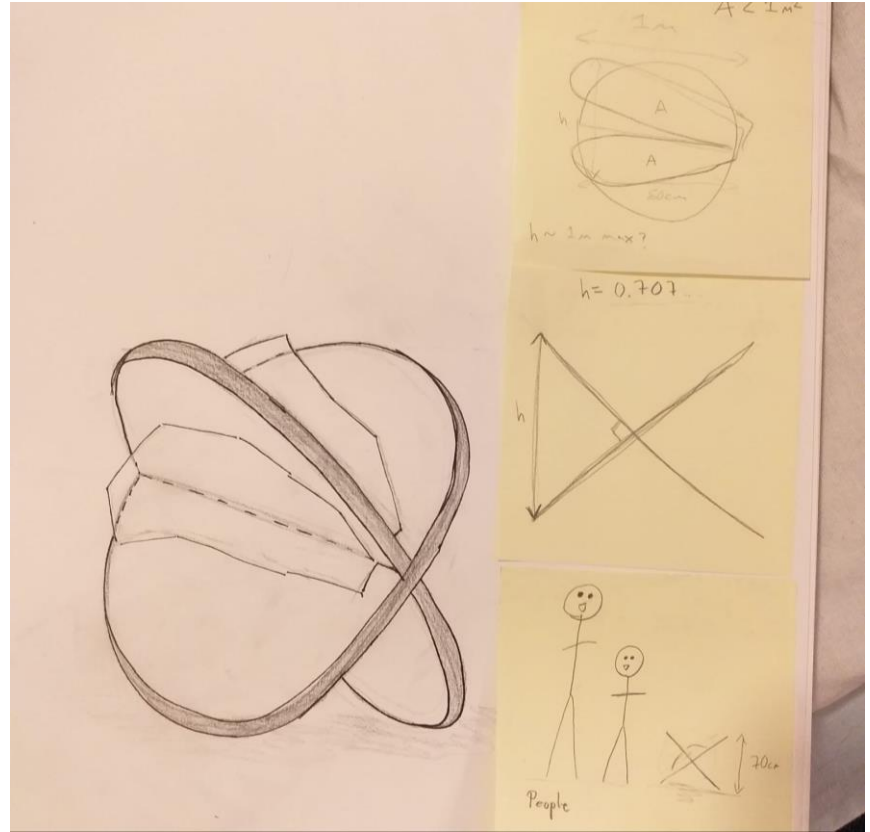
Statement:

Voronoi abstraction of a pair of dragonfly wings.

Show the mathematical beauty present in nature and to remind you to stop for a while and look around you.

The mirrors highlight different perspectives as we should try to see things from more than one side.

The iridescent material looks different depending on the light and angle, making the piece less static.



Prototypes



Prototypes

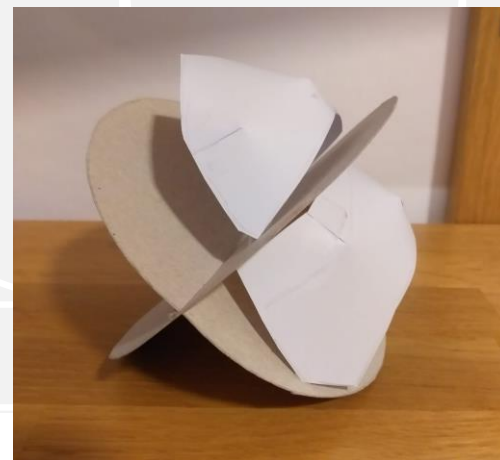
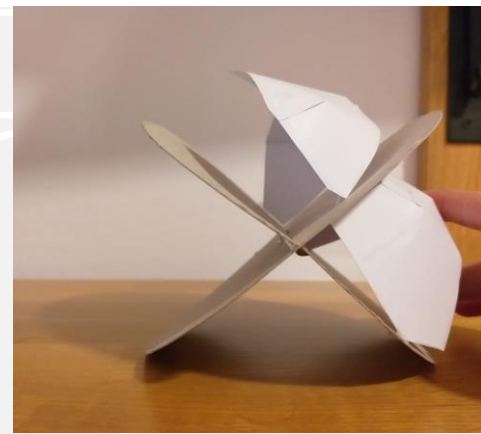
Wing experiment



Prototypes



Prototypes

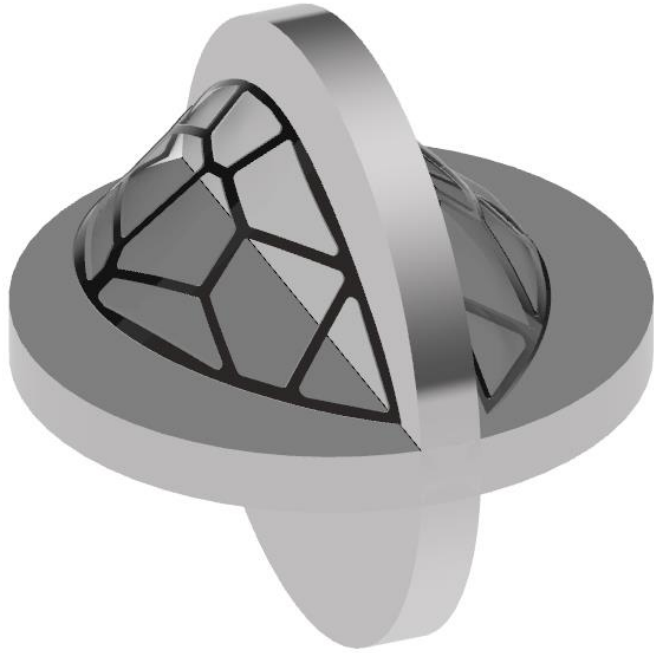


Prototypes

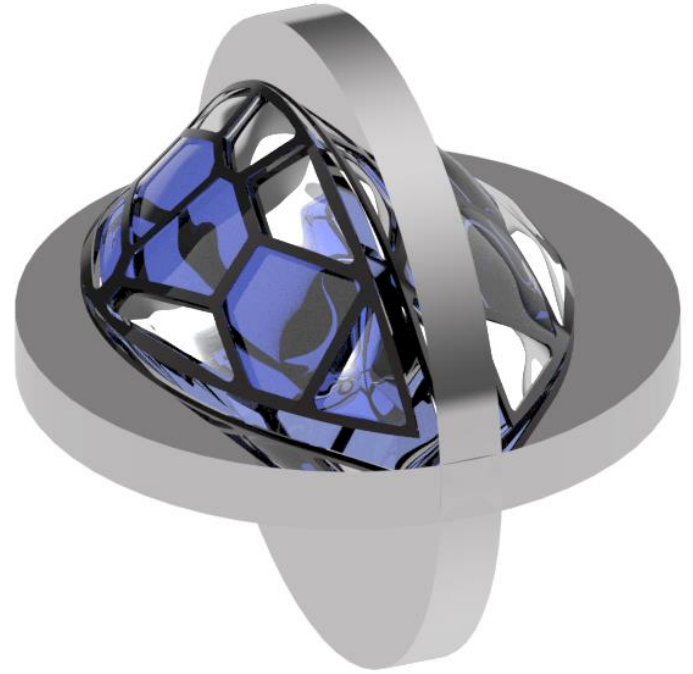
Barbie Rapunzel to scale.
(Barbie is around 180 cm and she wears high heels.)



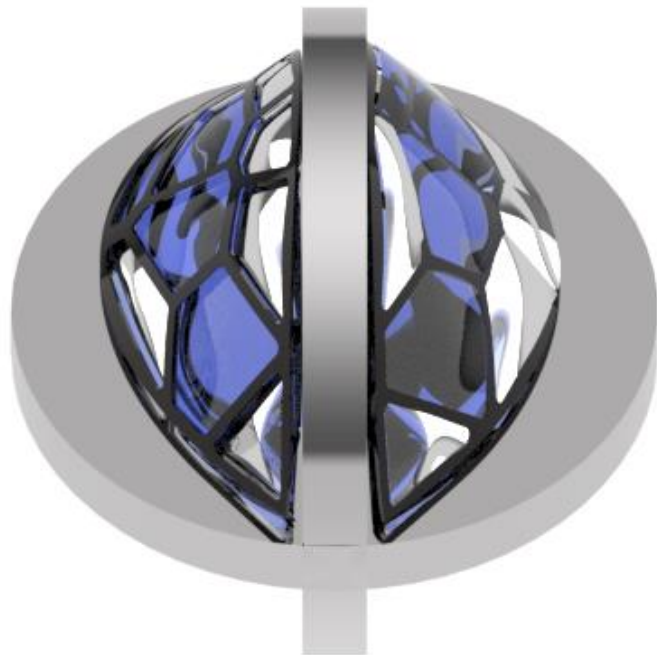
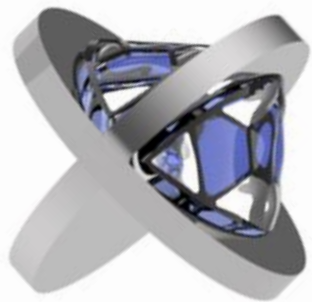
Note: Barbie might not be 100% scale with human body



skeleton-metal

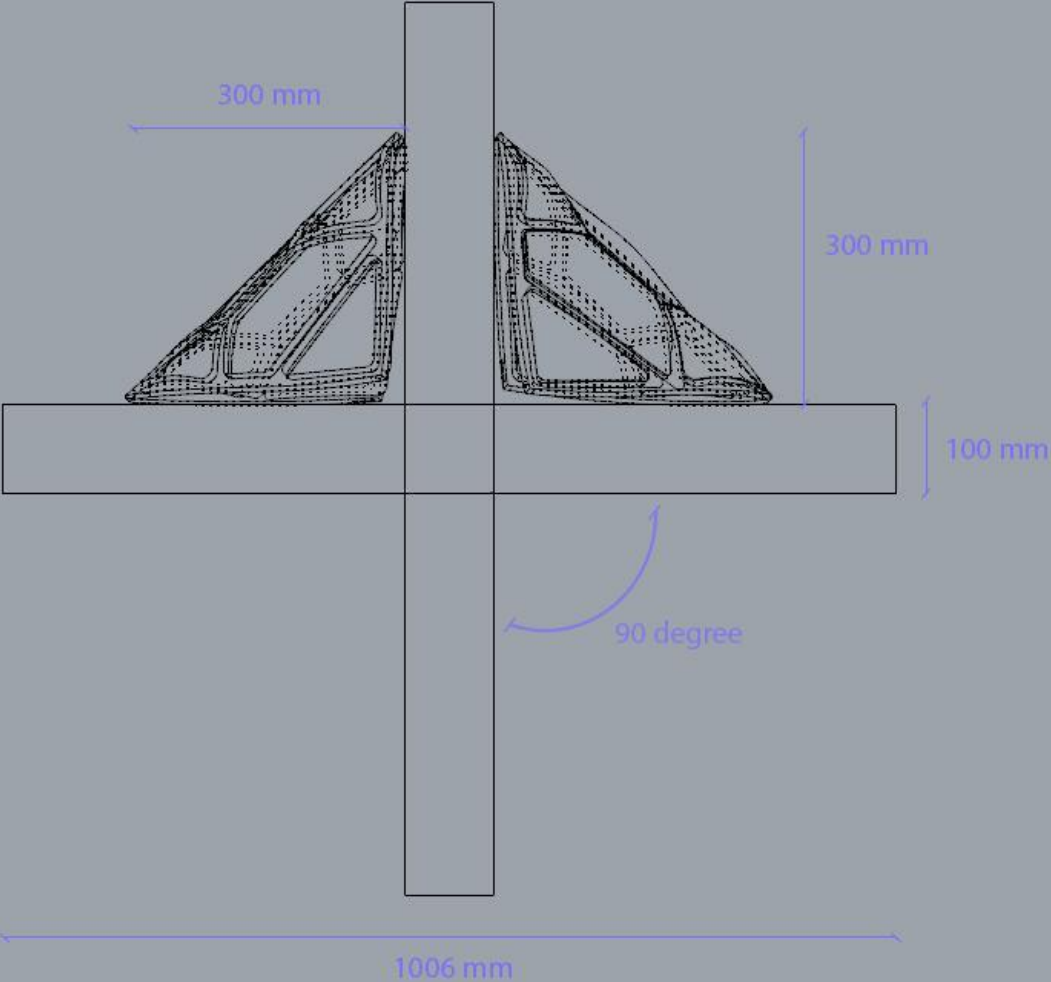


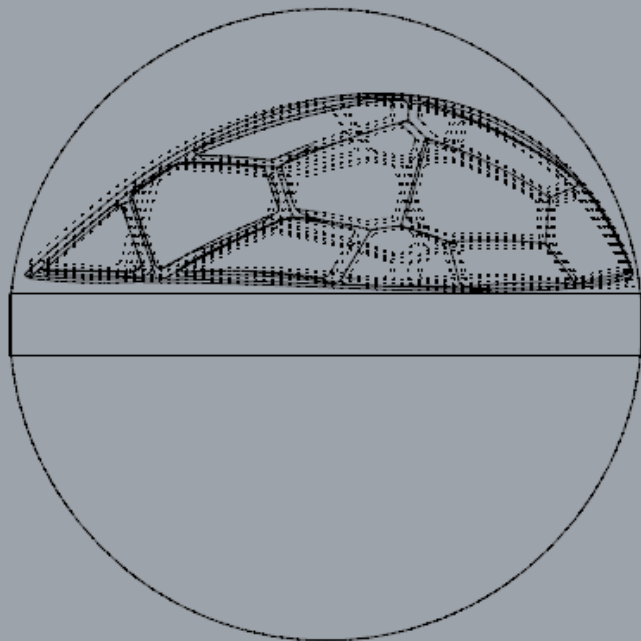
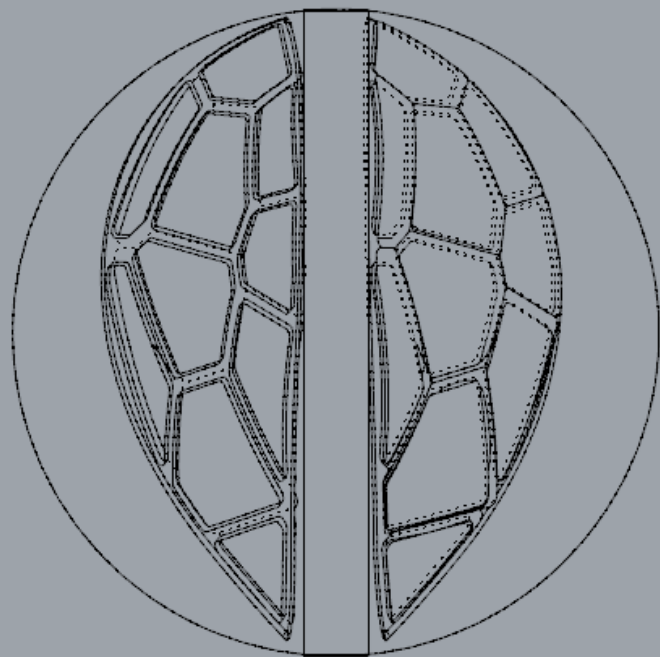
skin- iridescent acrylic plexiglass



Alternative scale

Technical drawings







Materiality and technical implementation

Platform: Stainless steel that's sanded to mirror (finnish: Peilihiottu rosterilevy).

Wings: Plexiglass/polycarbonate + iridescent film or iridescent acrylic.

We are considering leaving out the metal skeleton building the wings purely from plexiglass

Budget

Platform 355,43 € (870,43)

Film, approx 30€ (varies)

plexiglass 449 kr (about 50€) /750x1500 mm (K-rauta)

polykarbonat 37 € /3x800x1200 mm (Biltema)

acrylic sheets 3mm: 65 €/m² +alv24% (muovikilpi)

acrylic sheets 6mm: 105 €/m² +alv 24%

glue (around 10 €)

If skeleton is made:

Aluminium 154.60€ /2x1000x2000mm (vink)

Total: 445 € (960 €) with skeleton 599 € (1104 €)

Conclusions:

Next steps:

Meet and do more prototypes.

The wings need some support from the mirrors, a single glued joint can not support all of it (4.5 kg/m^2).



Thank you!

