



keeping time





TEMPORALITY: the state of existing or having a relationship with time.

what?

3

kinetic and interactive sculptures.

natural cycles.

characters.



blooming
& seed
cycles.



daphne.



migratory cycles
& birds)



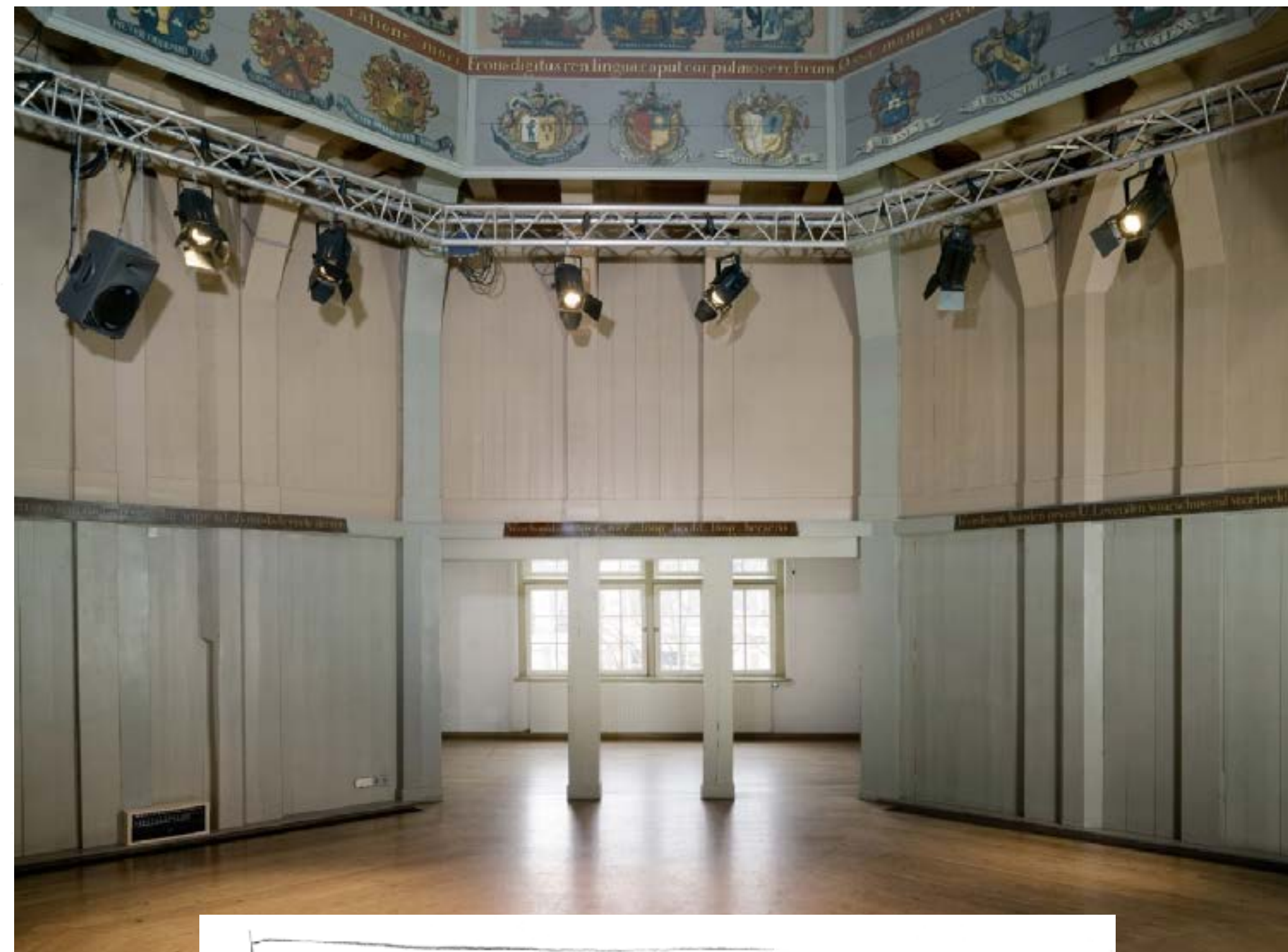
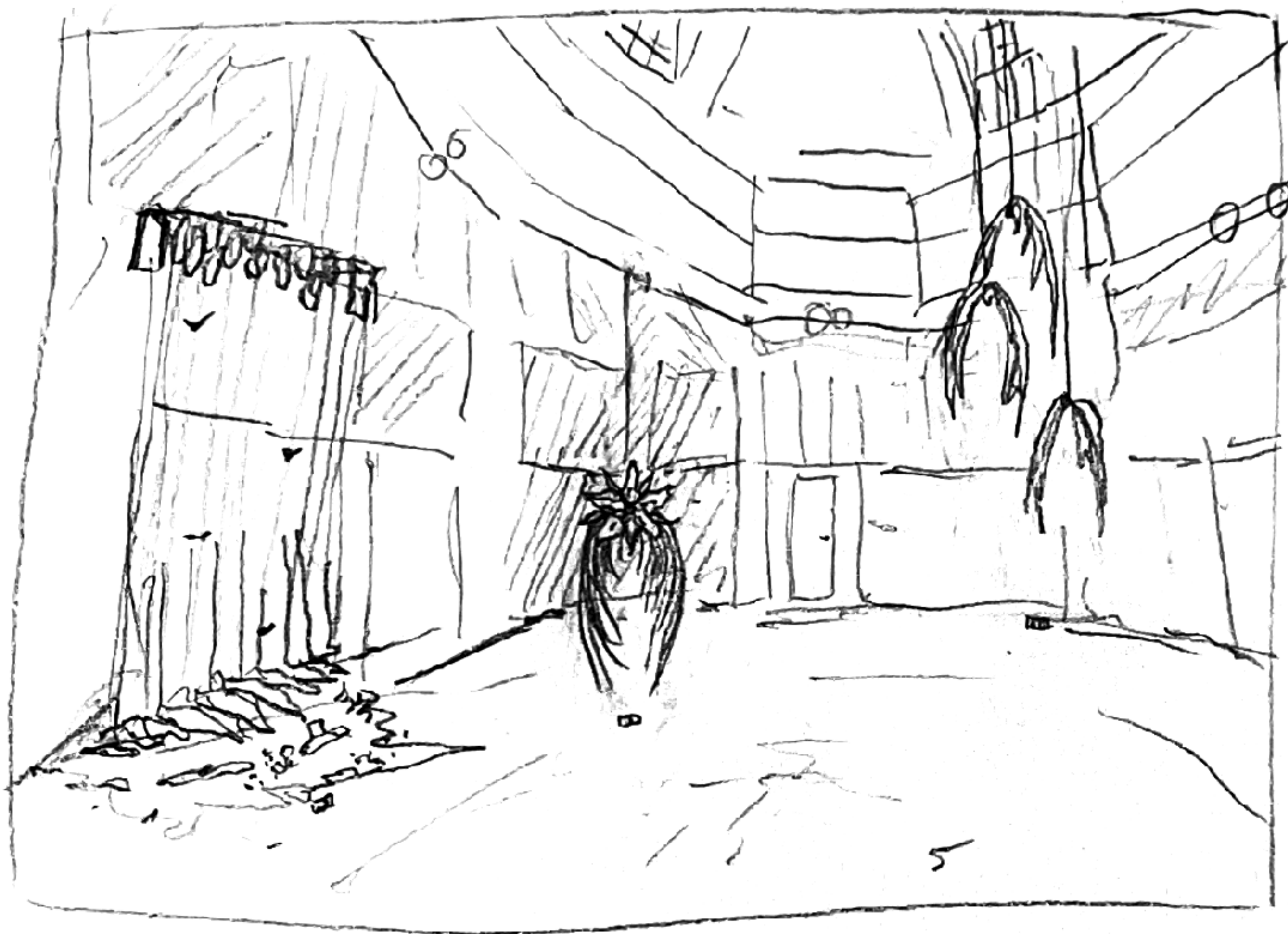
philomel.

growth cycles
in waterfall
ecosystems



amphitrite.

initial sketches. *Theatrum Anatomicum* 



phase one :

research

ideation

design

prototype motion

daphne.

DAPHNE #2.



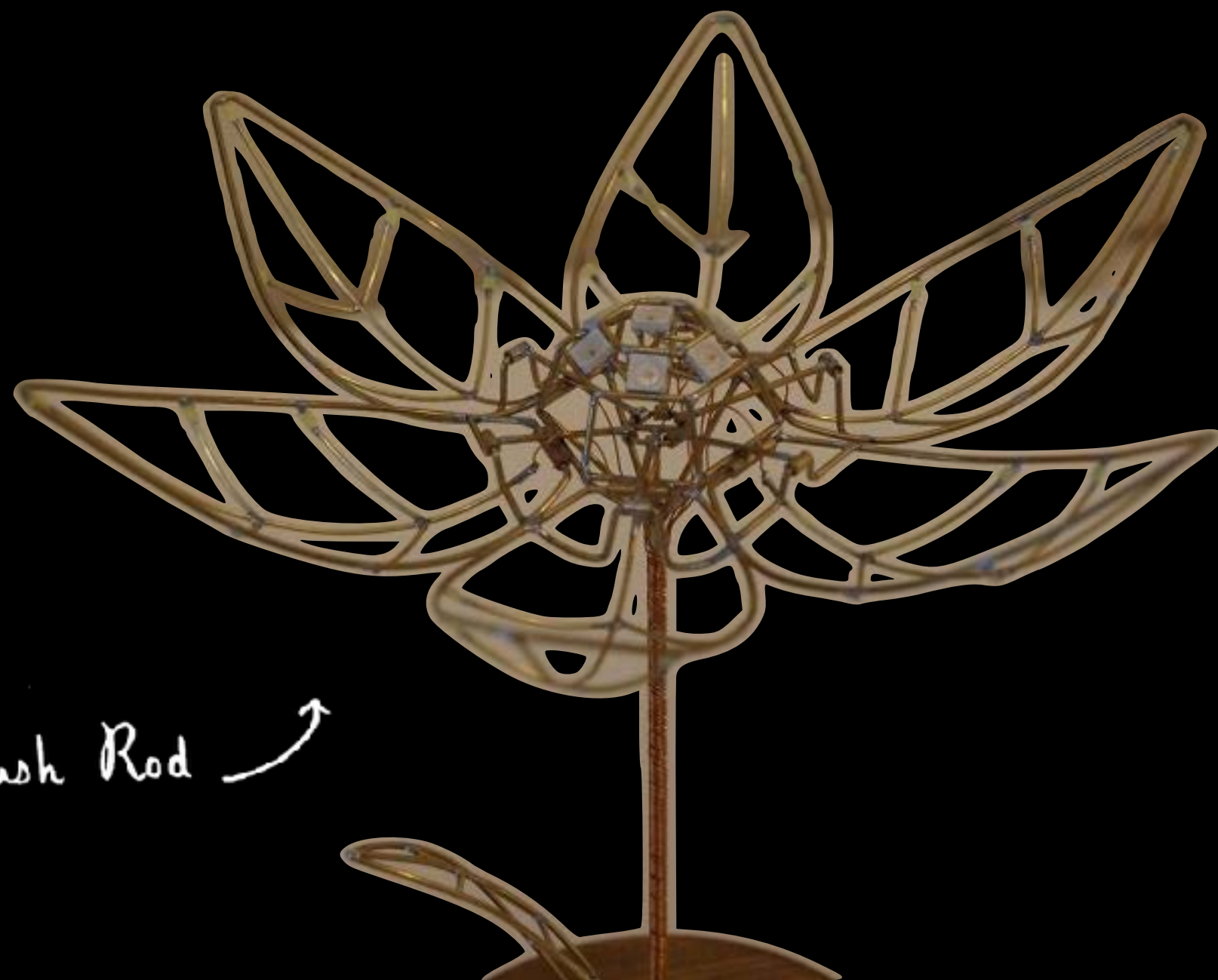
Smooth Inward Curve.
Unfurling, blooming



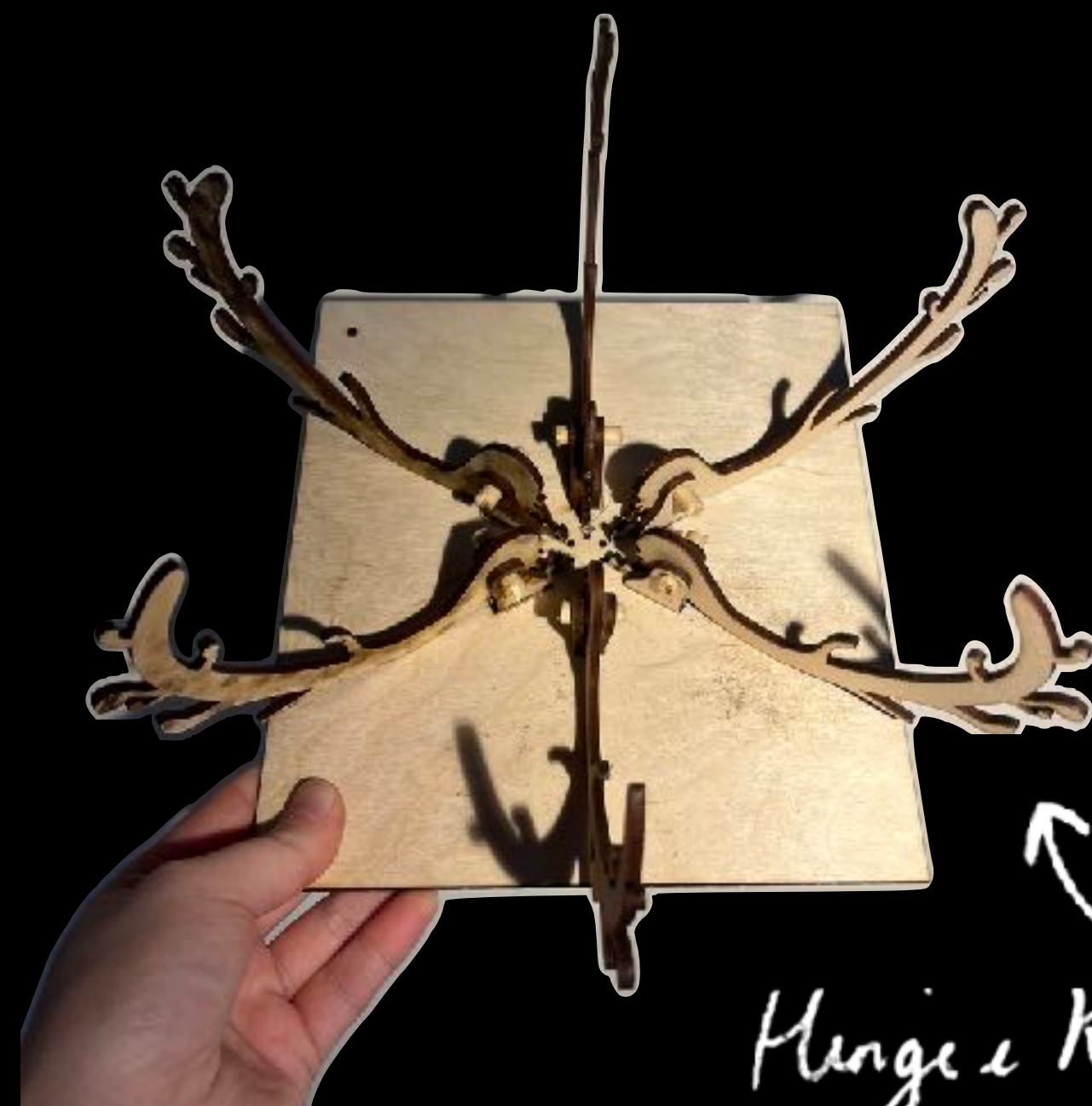
Opening & Closing



Gears ↗



Push Rod ↗



Hinge & Rack ↗



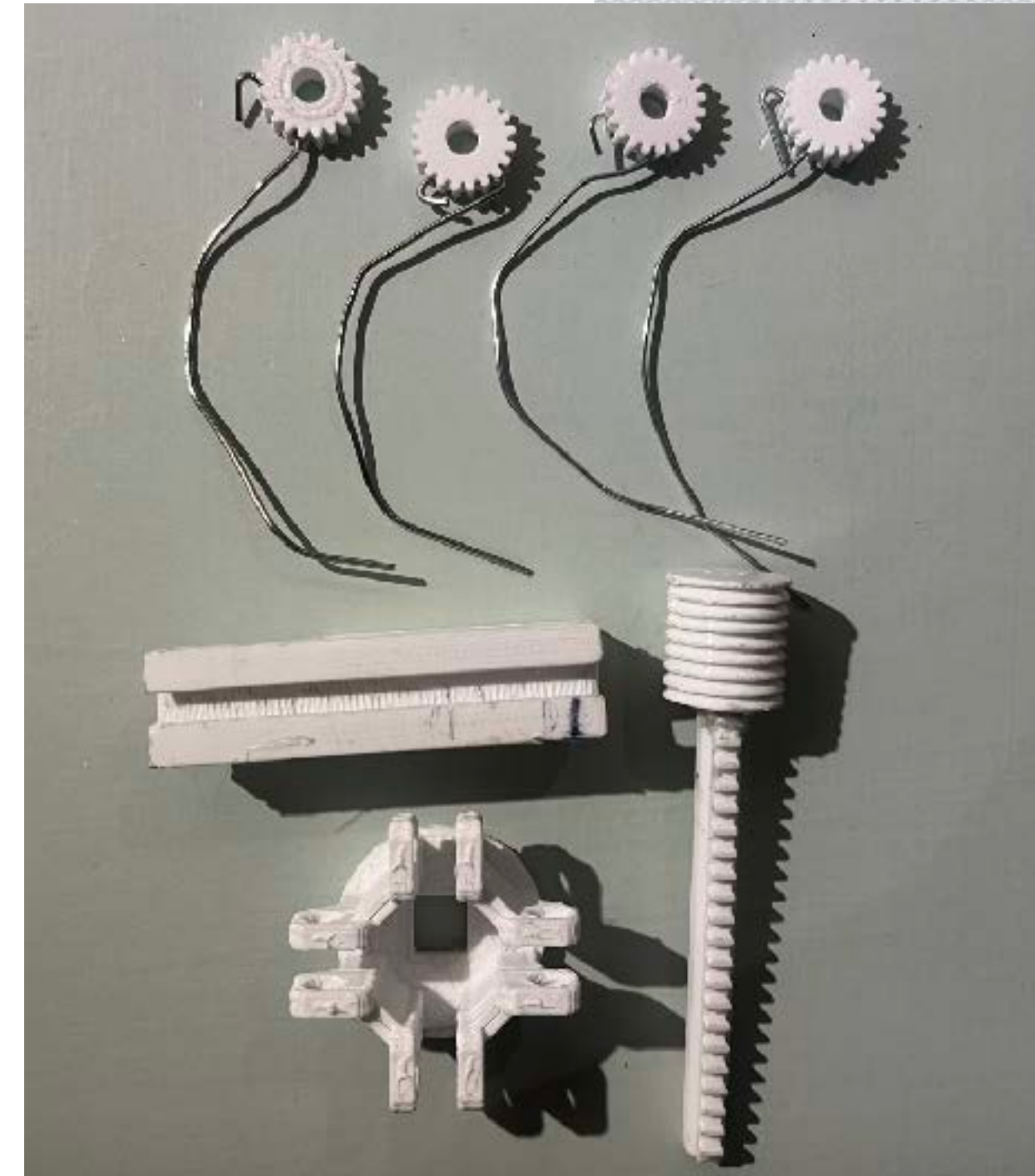
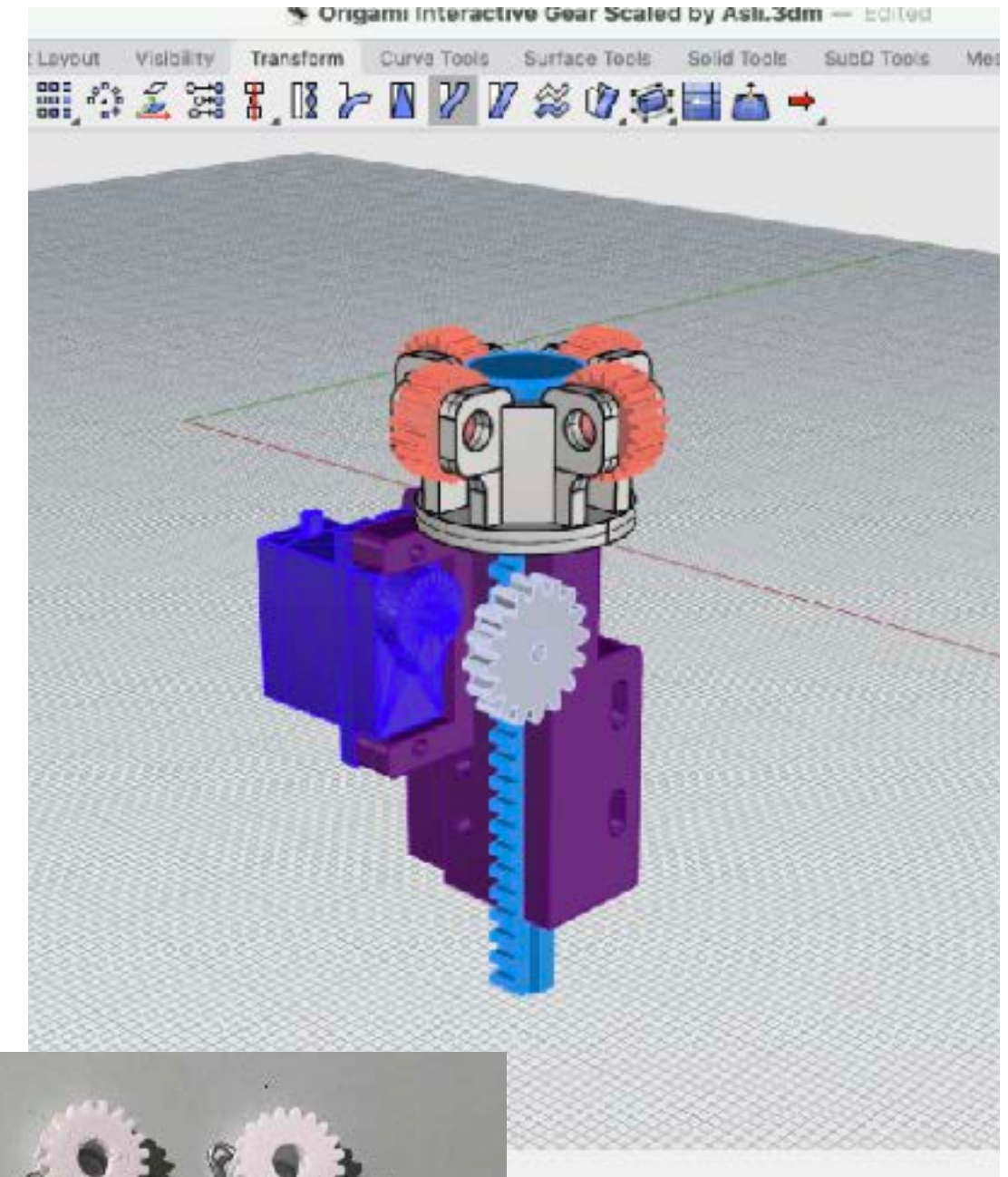
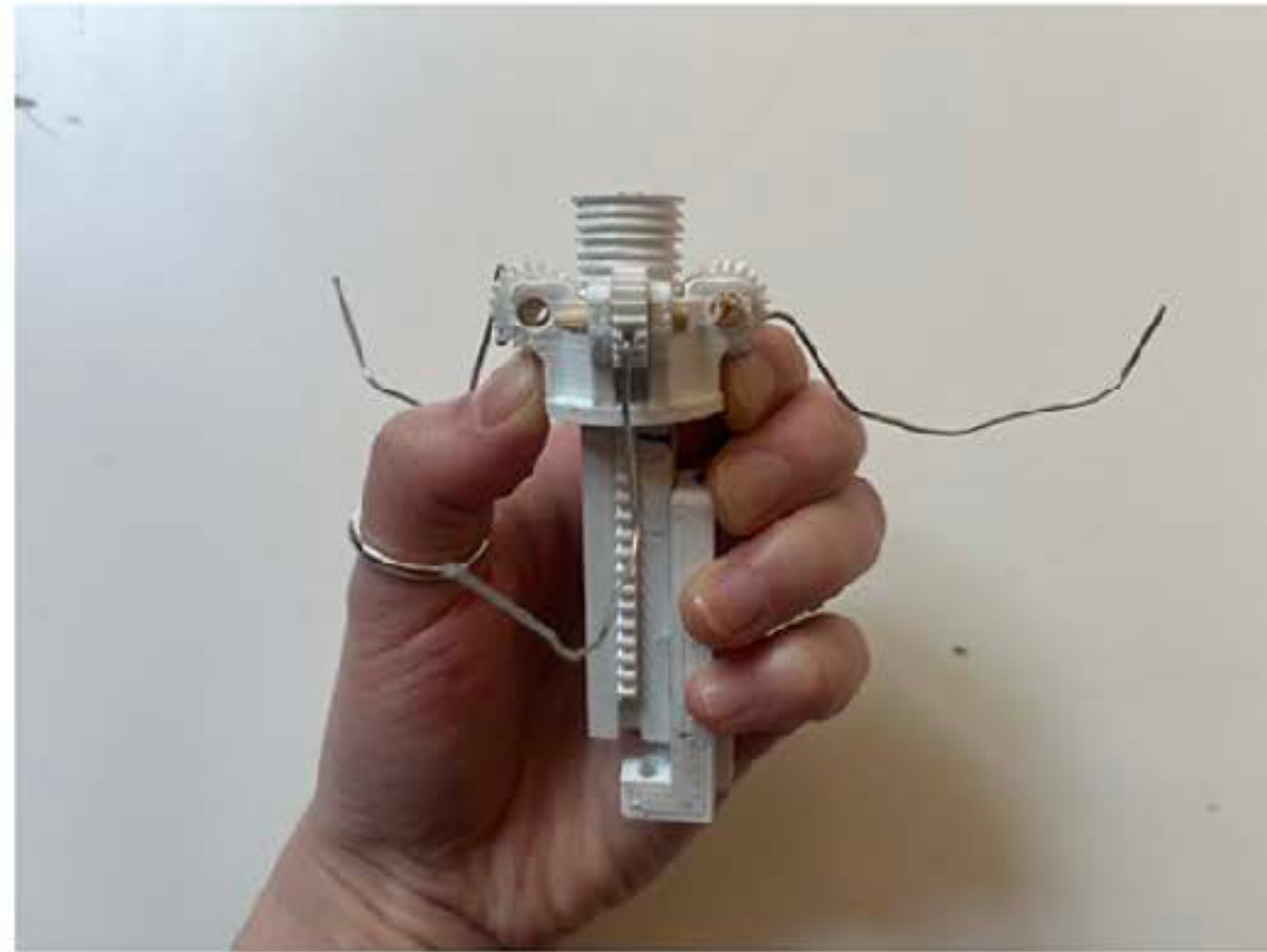
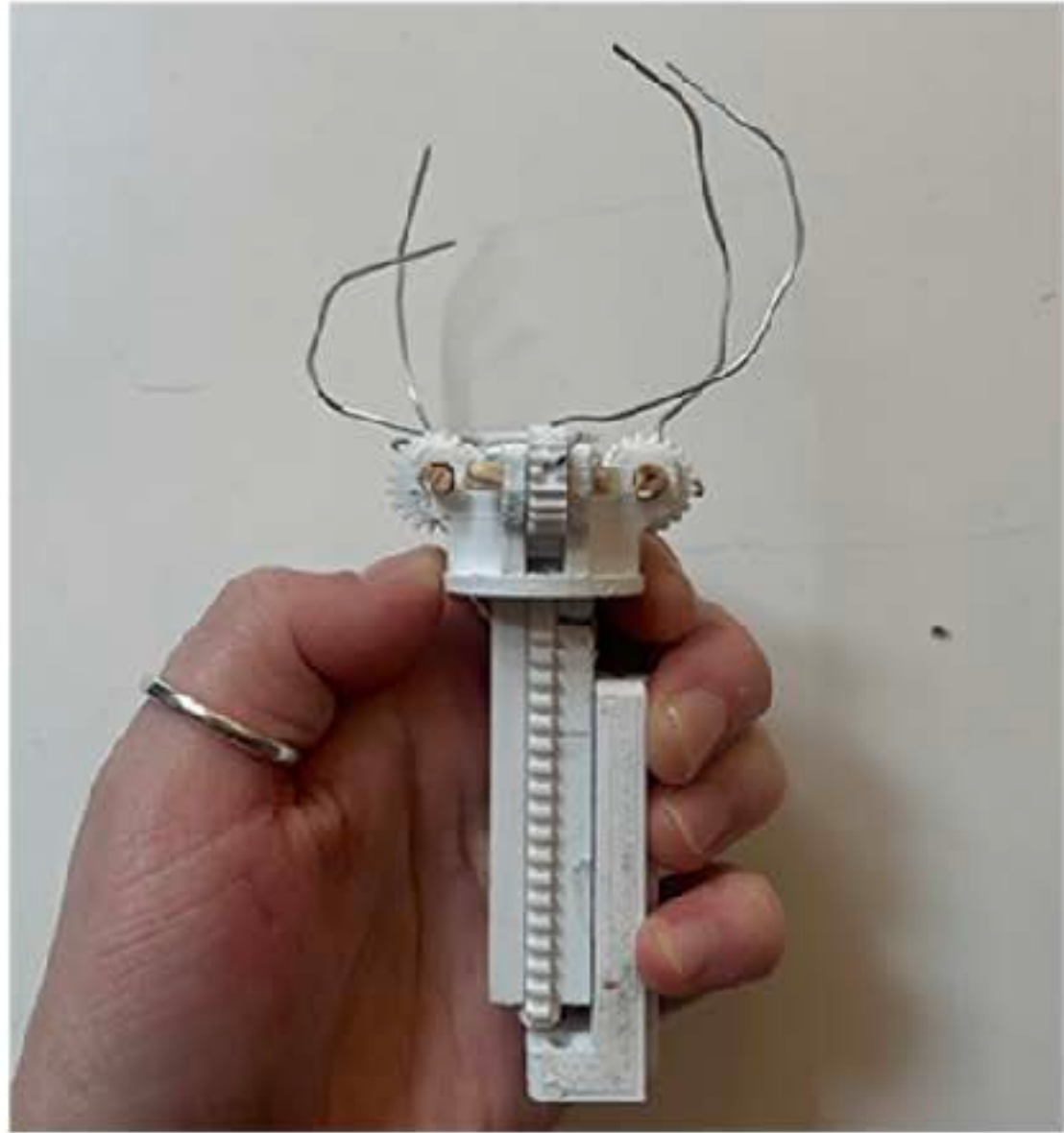
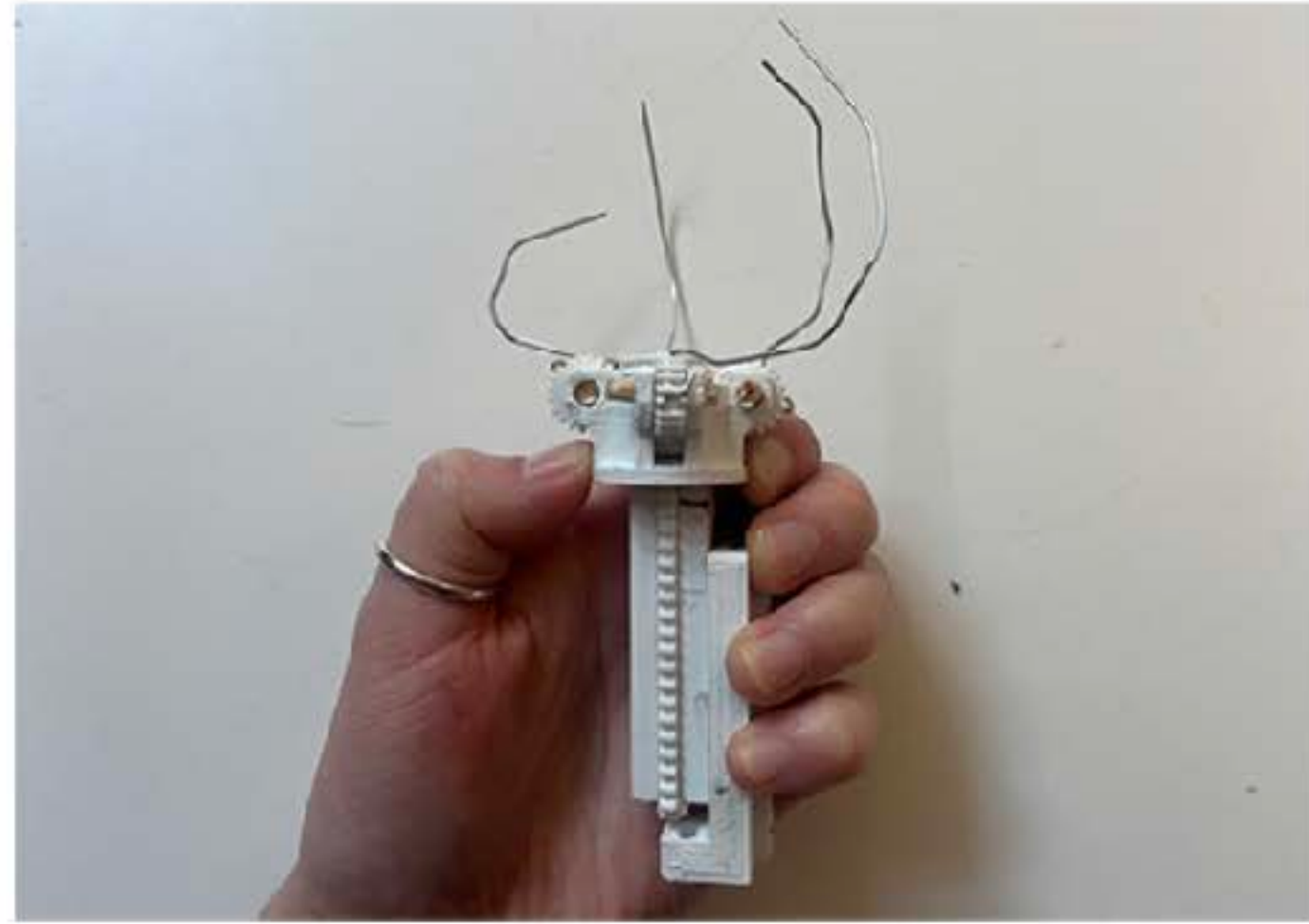
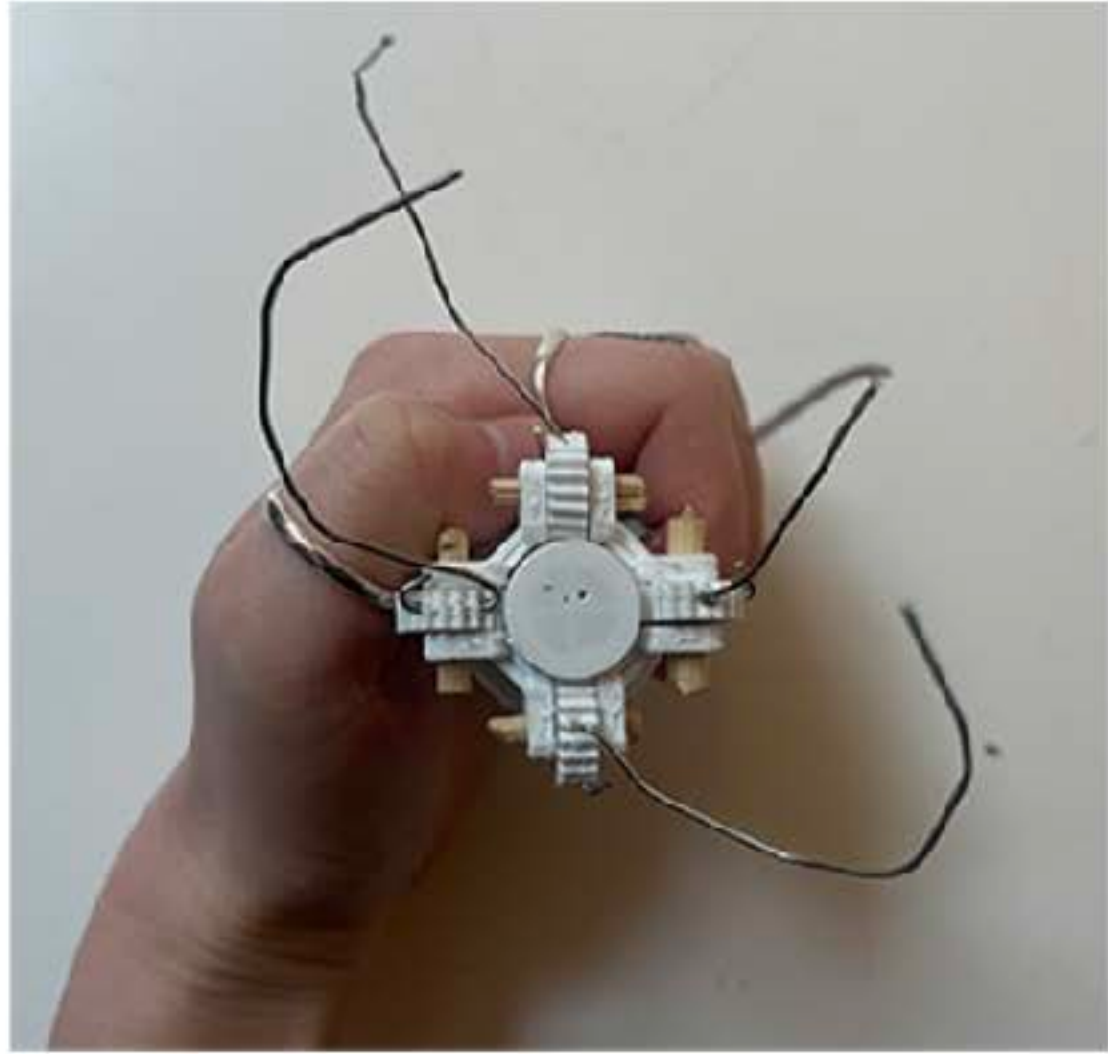
Umbrella Mechanism ↗



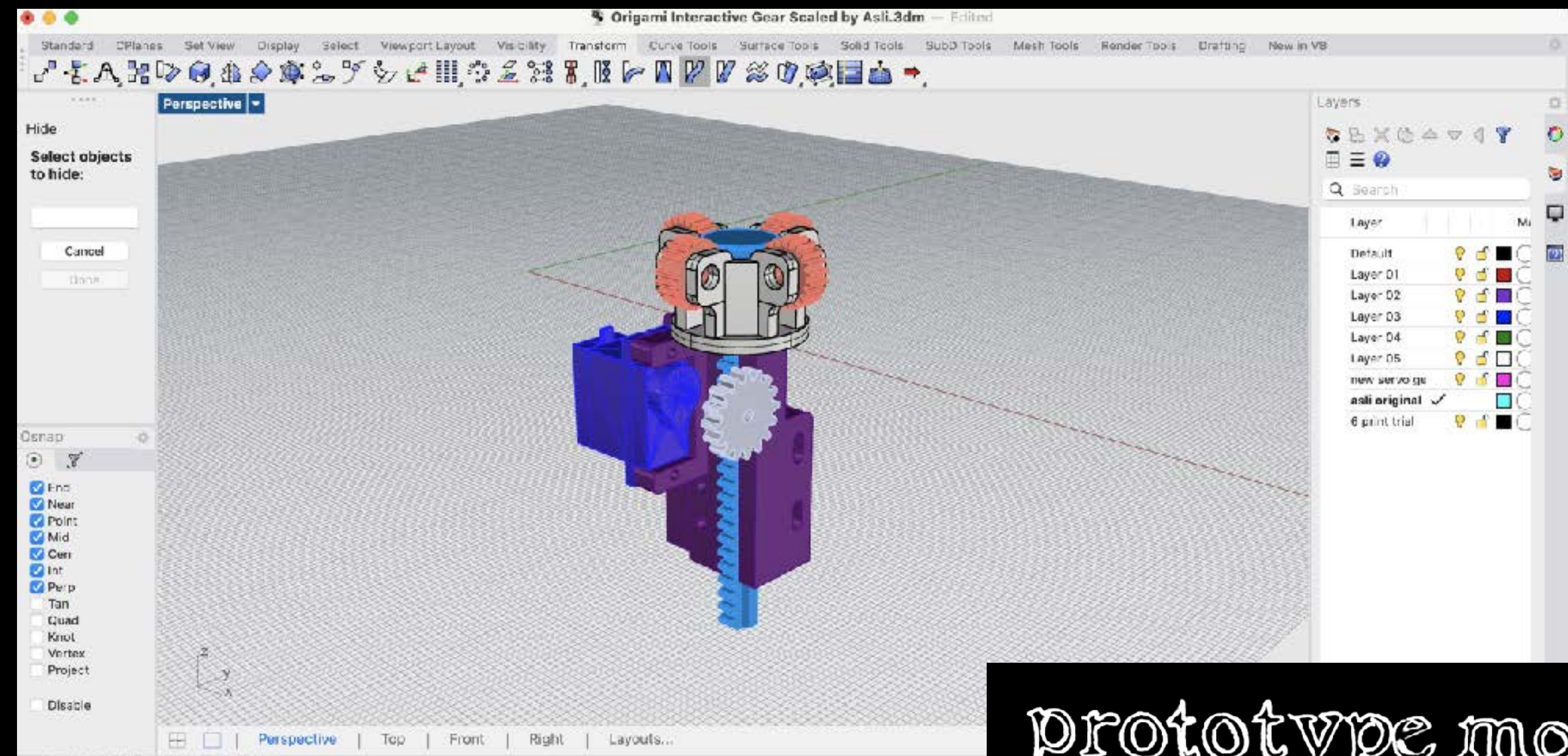
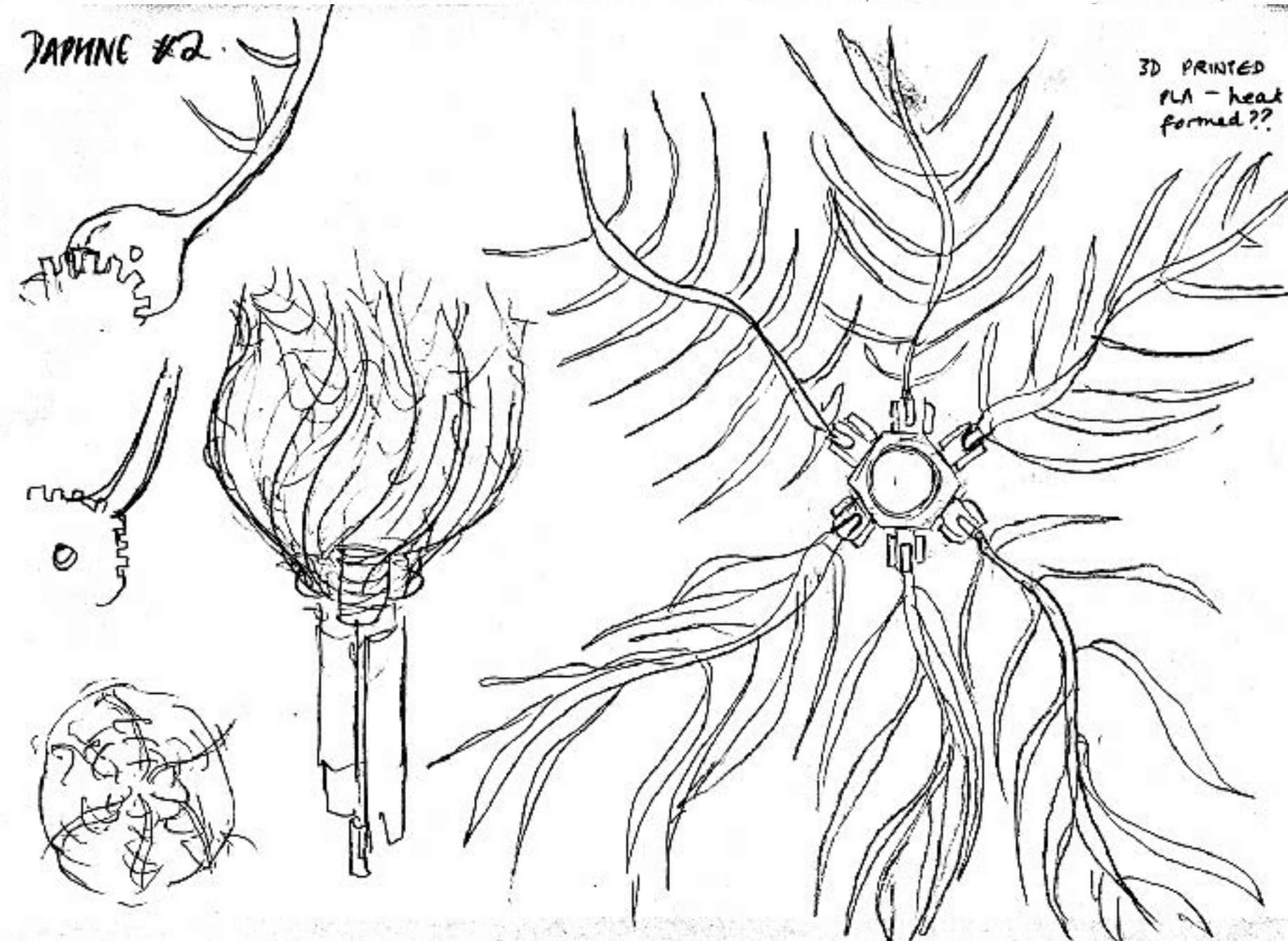
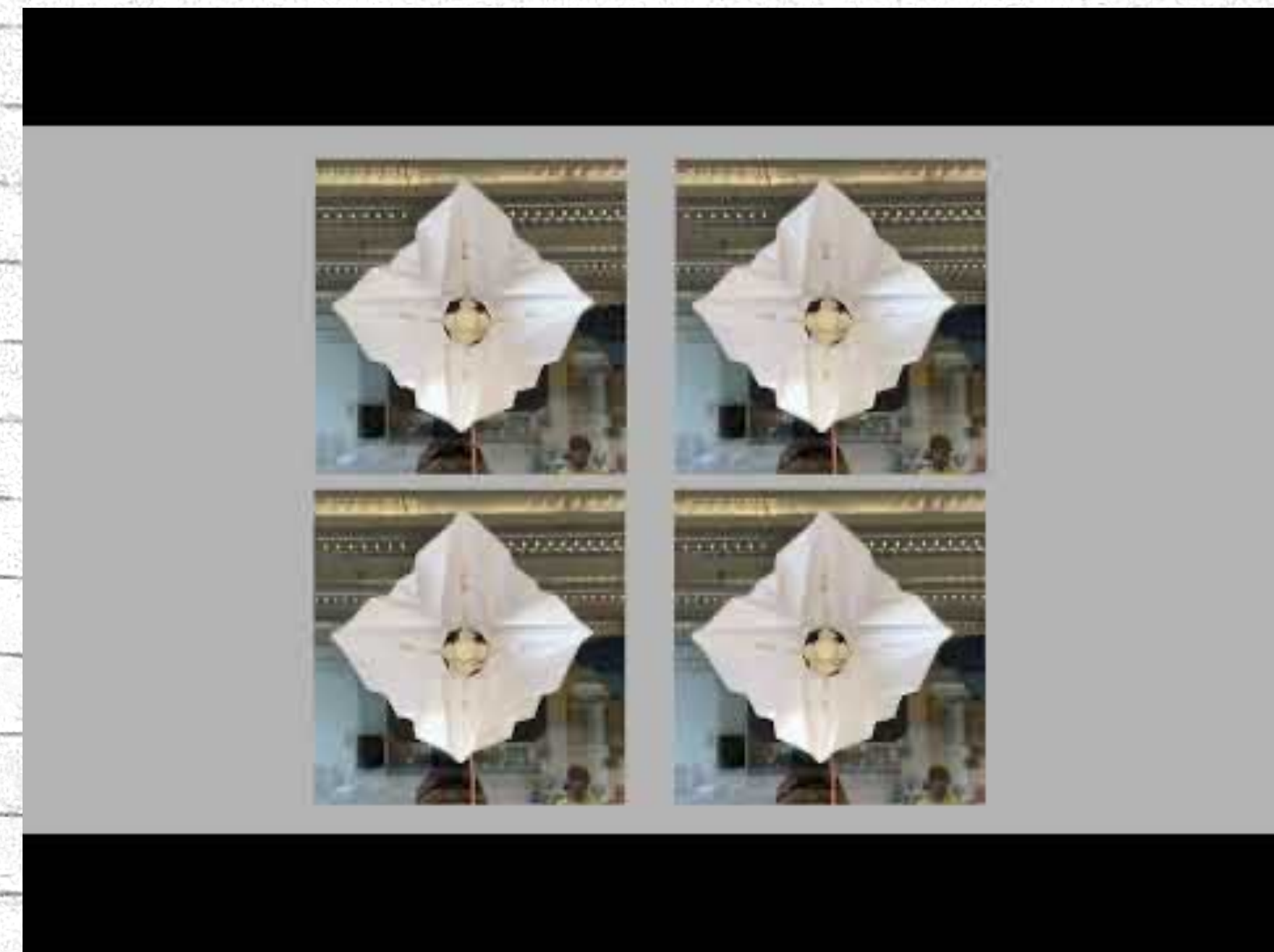
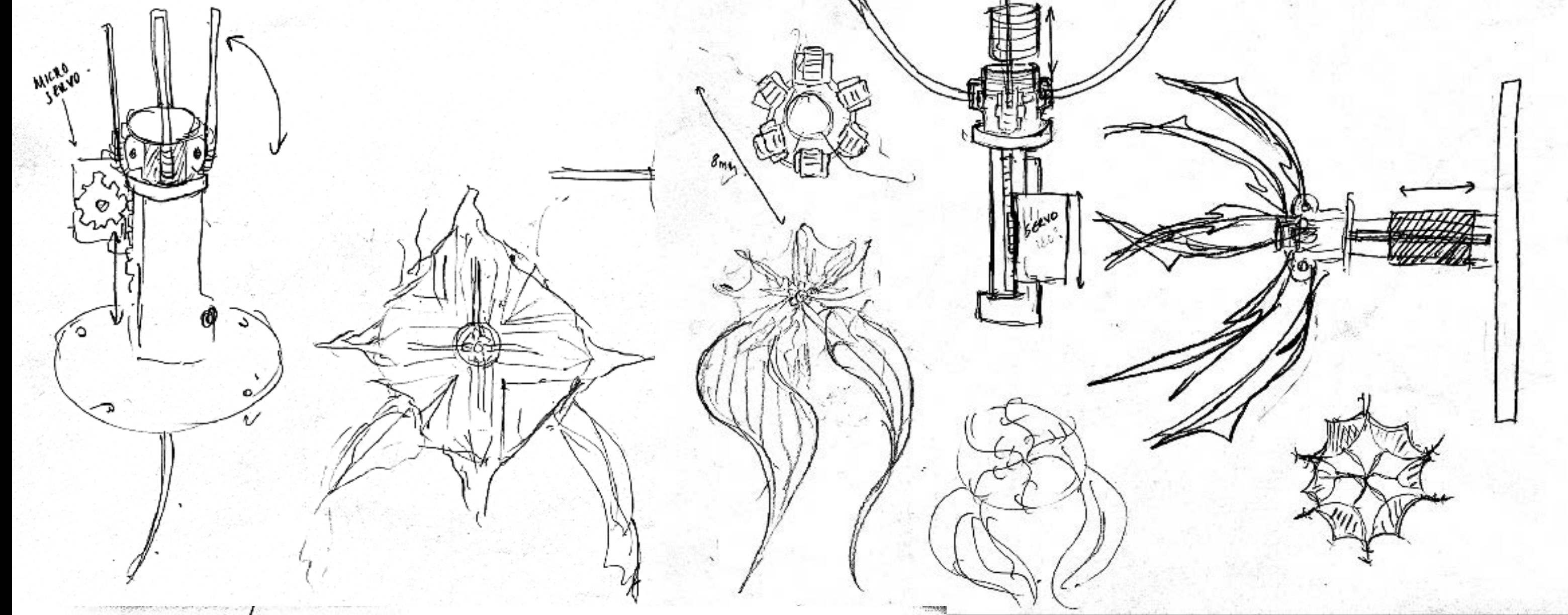
Flasher Geometry ↗

Hoberman's Ring ↗

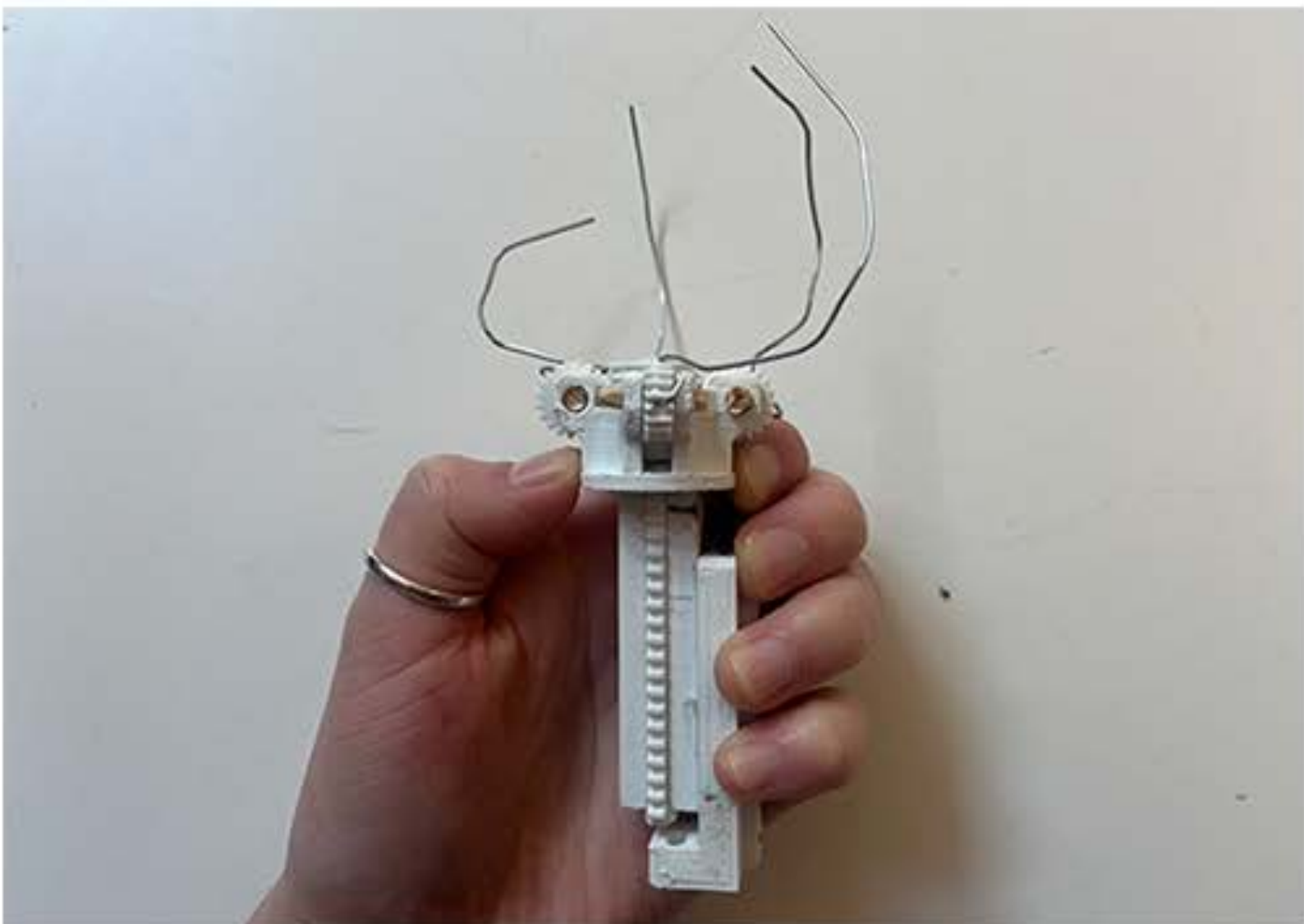
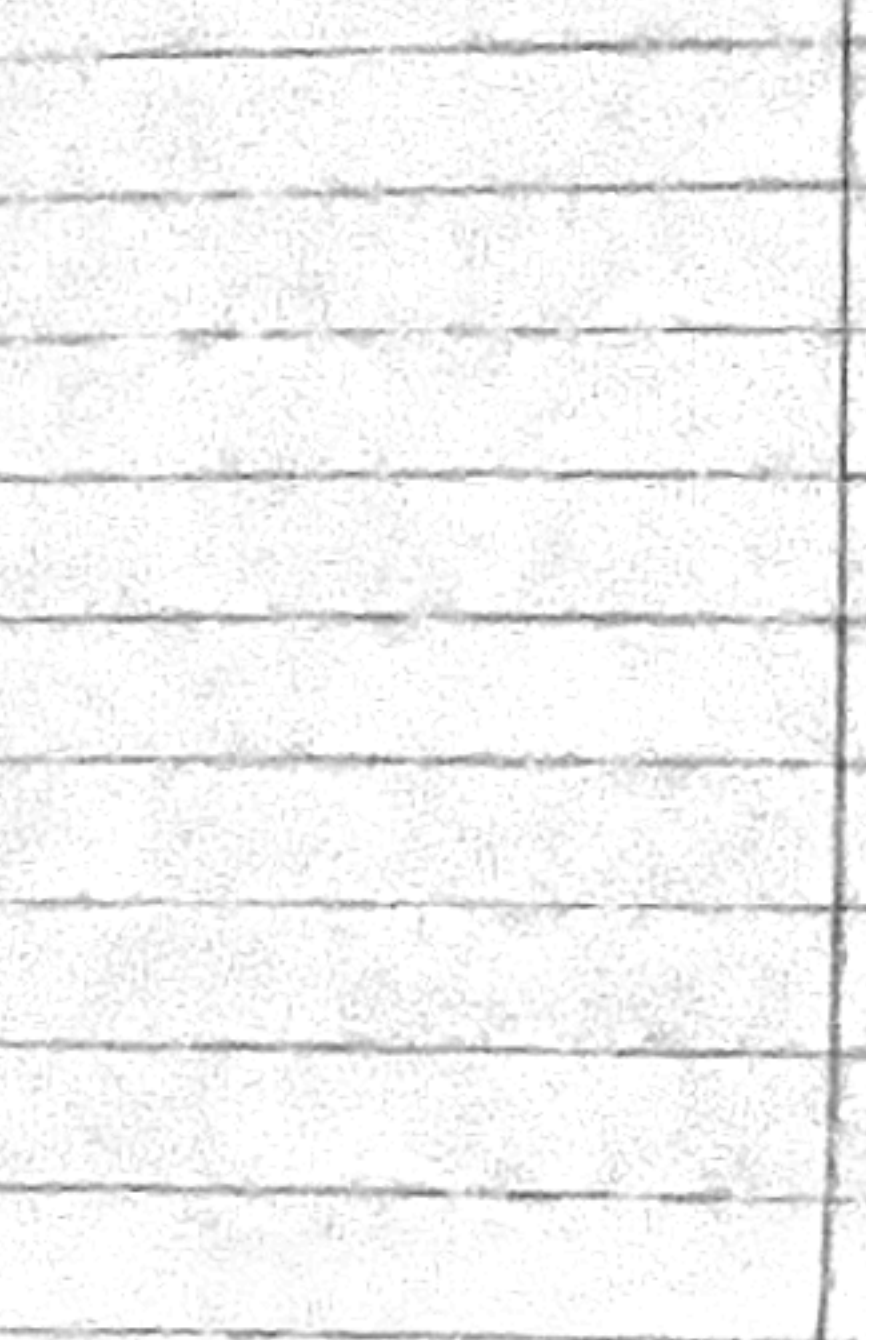
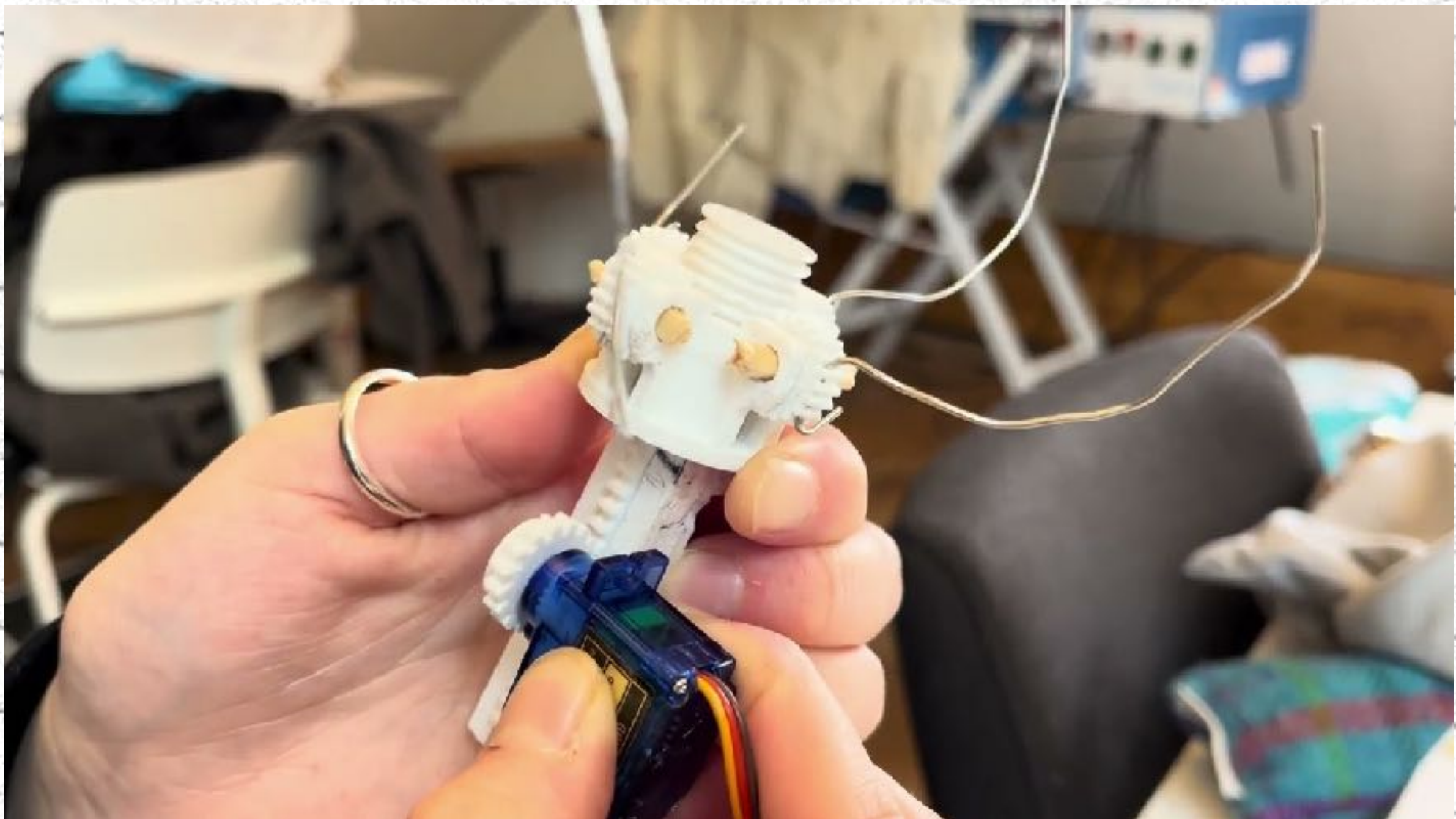




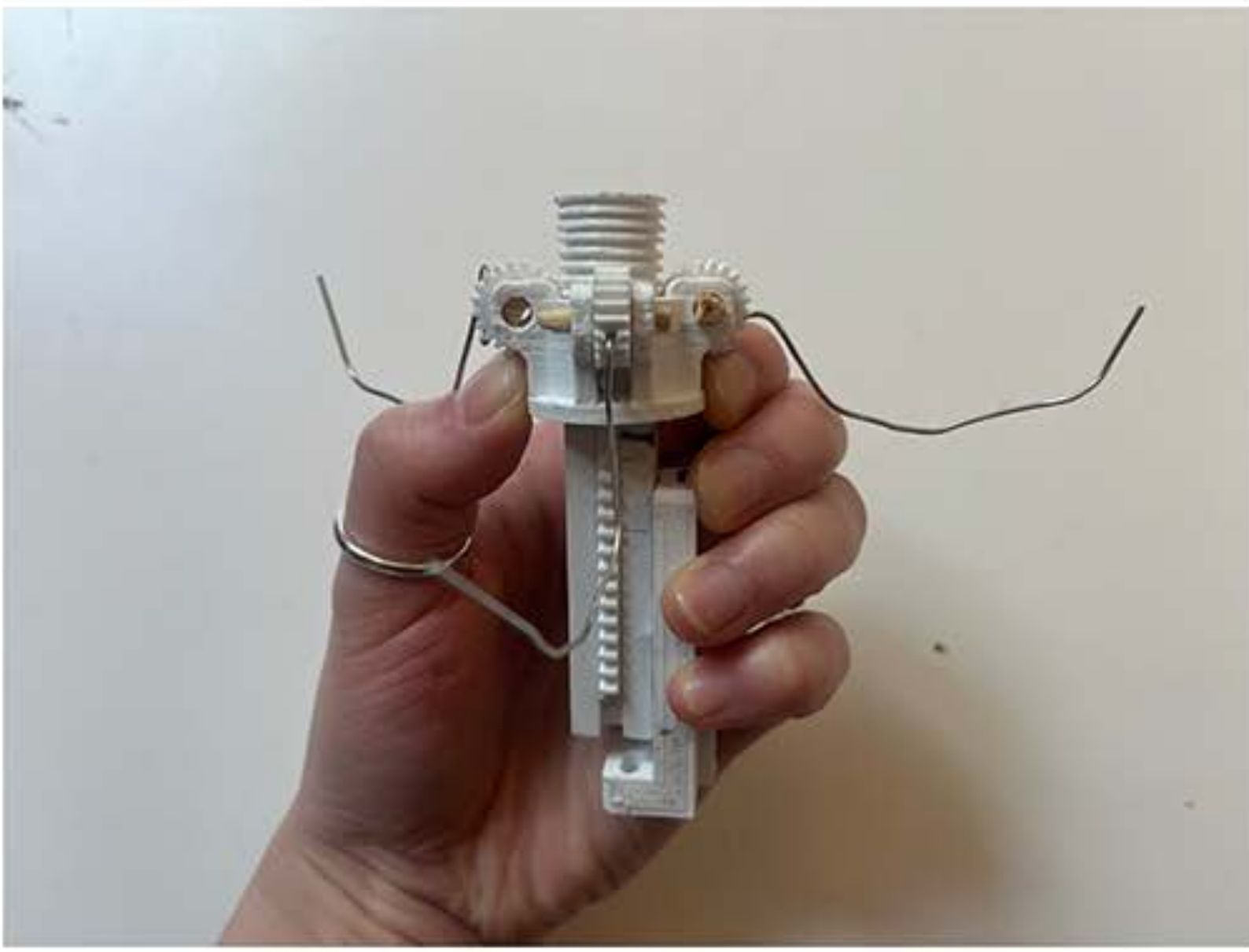
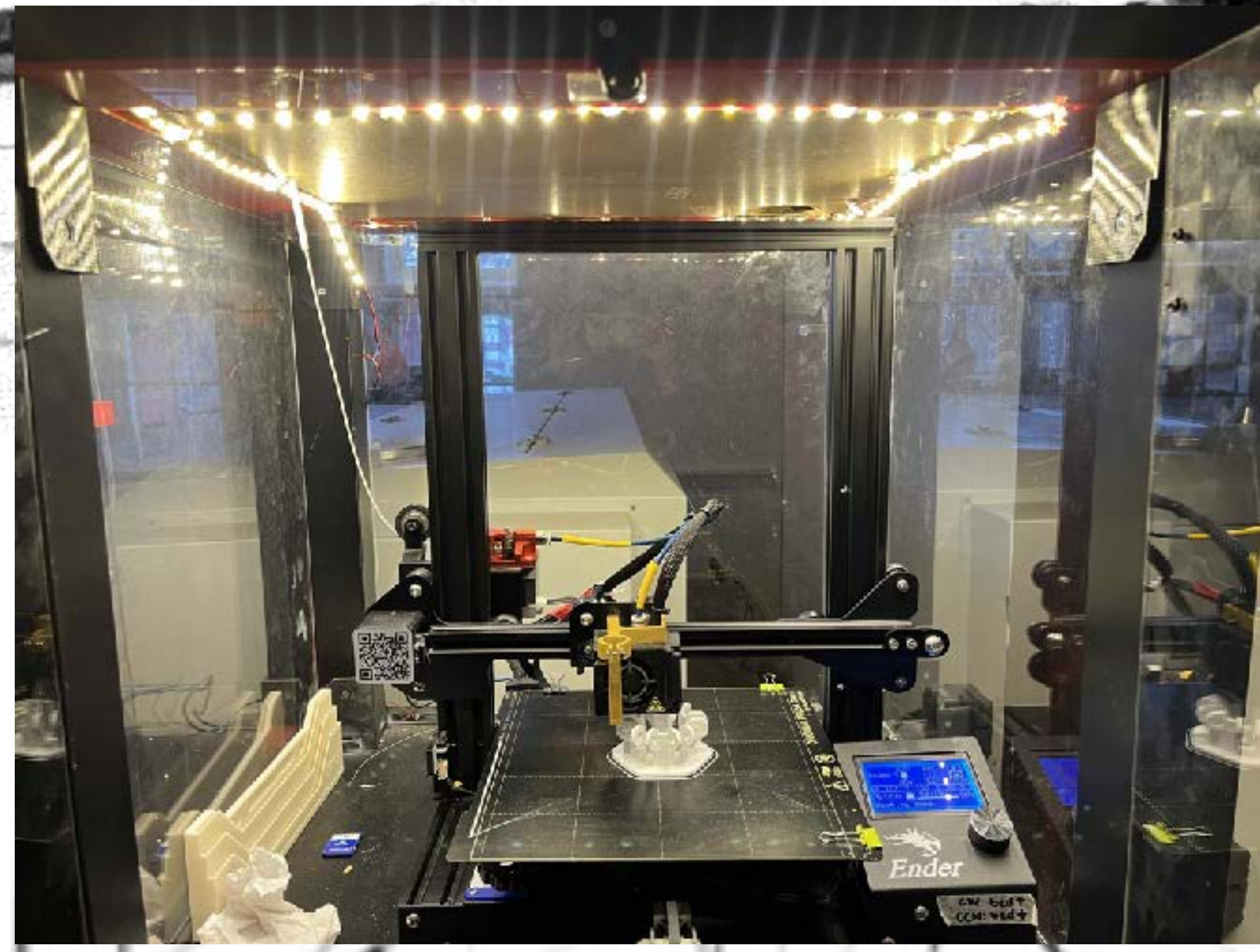
② GEAR MECHANISM (tutorial - origami interactive kinematics)

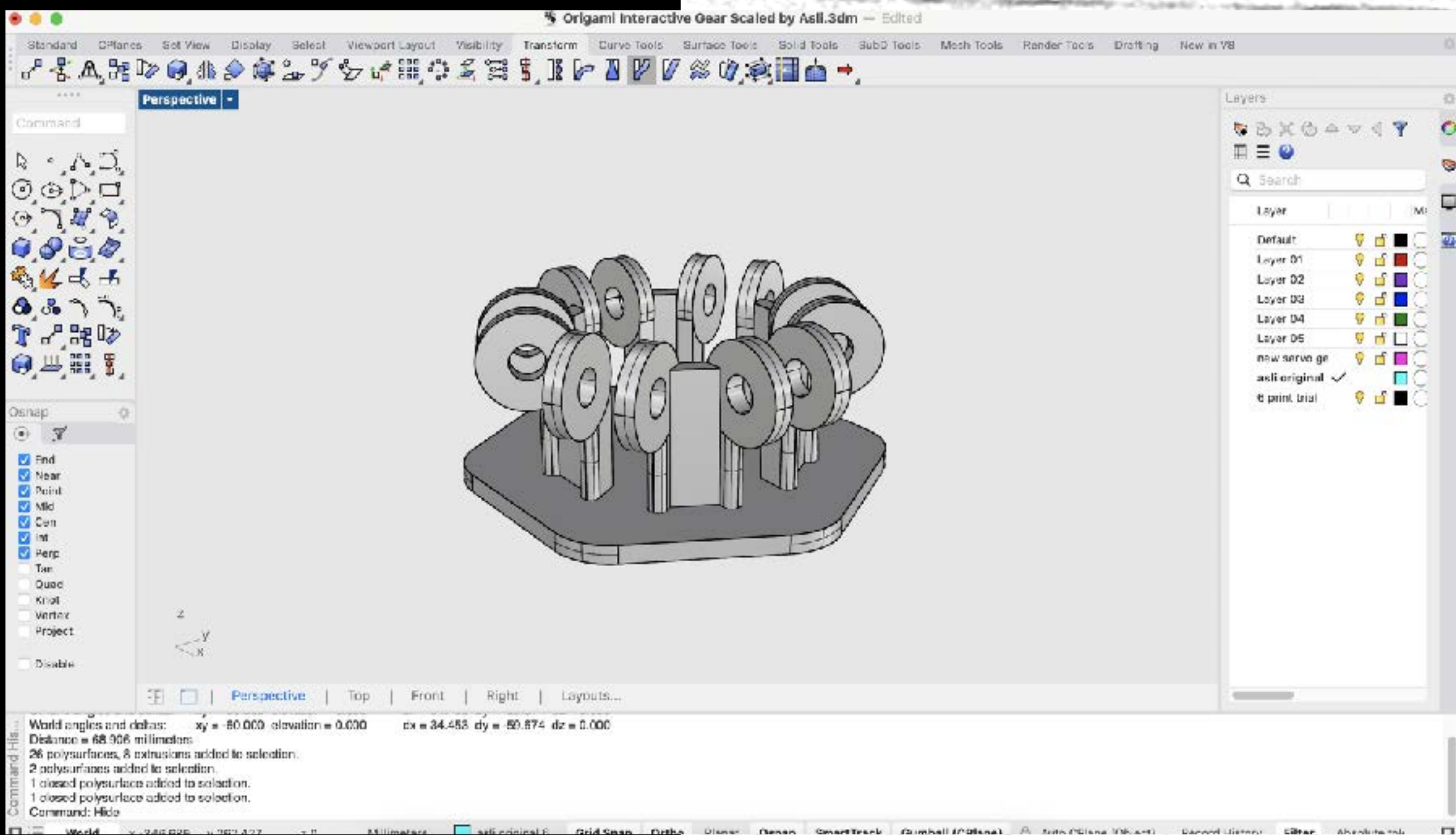
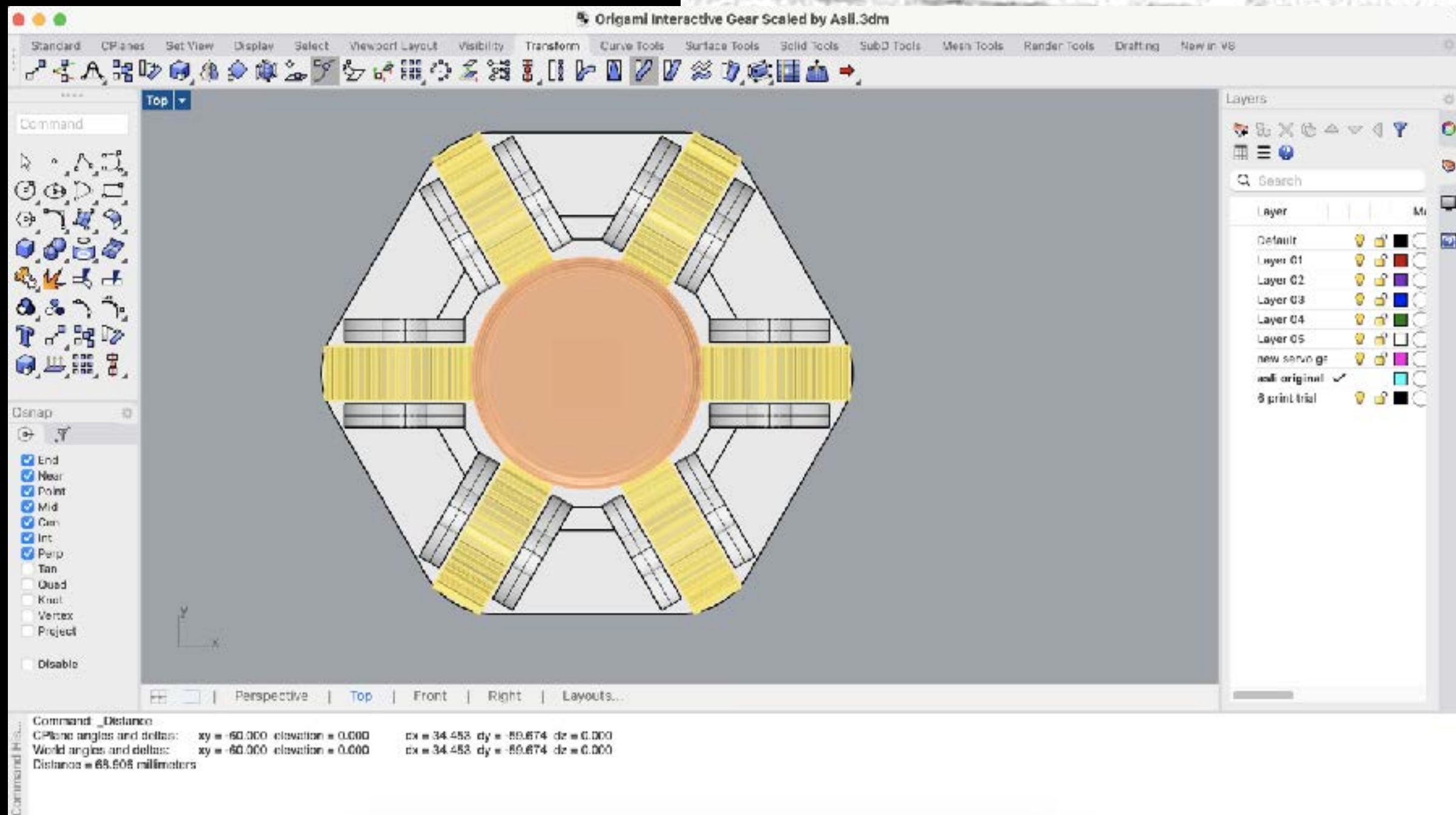


prototype motion

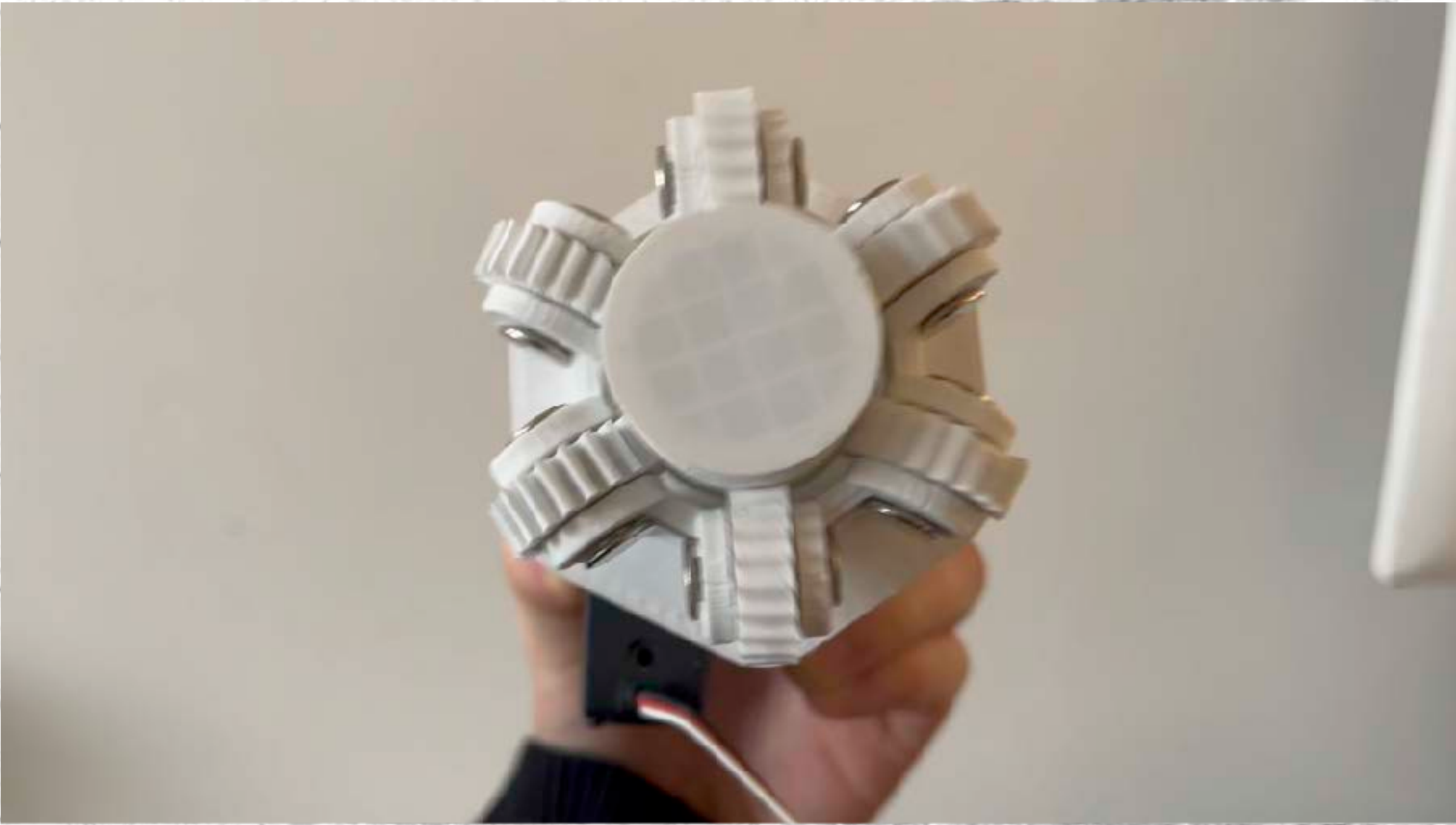


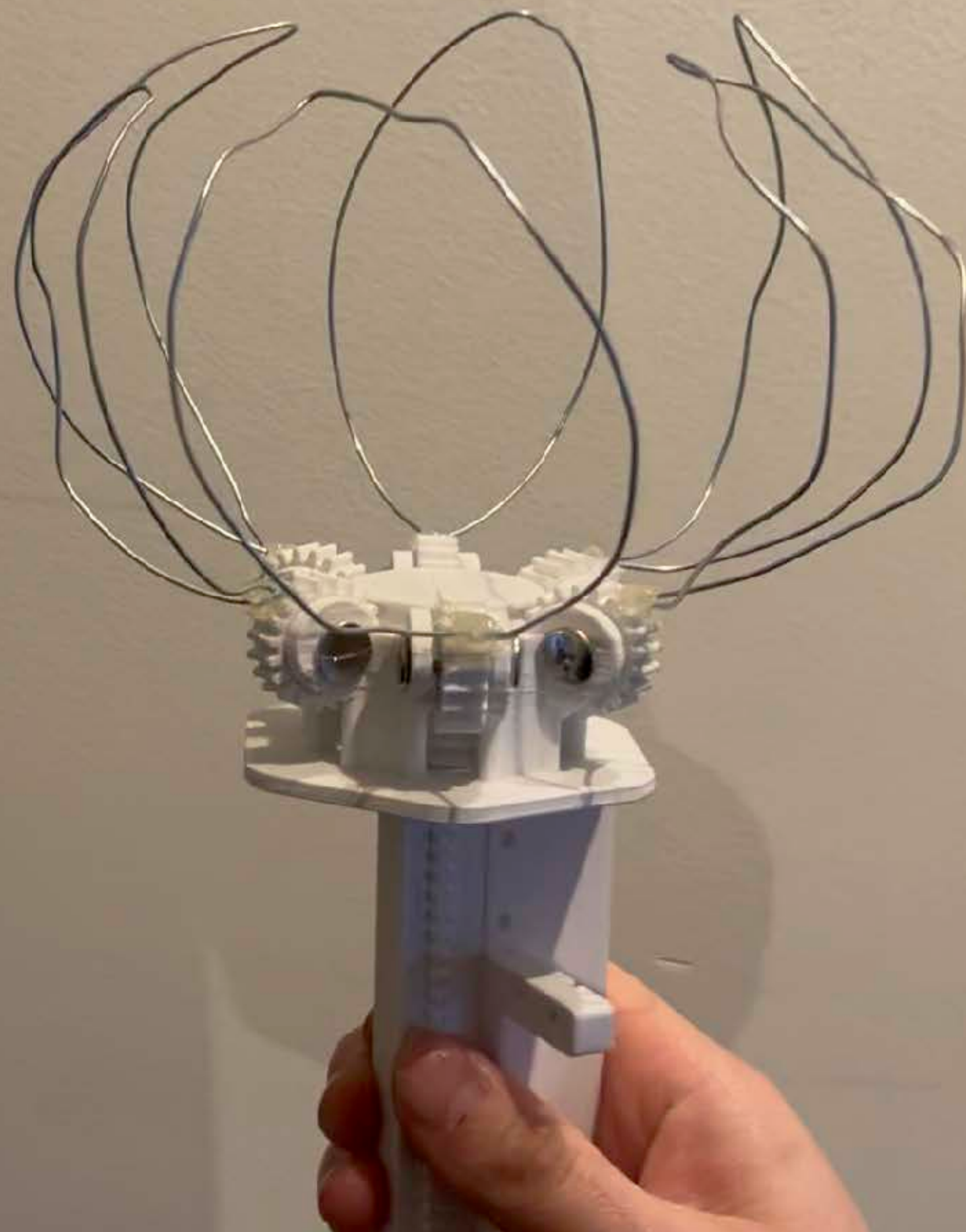
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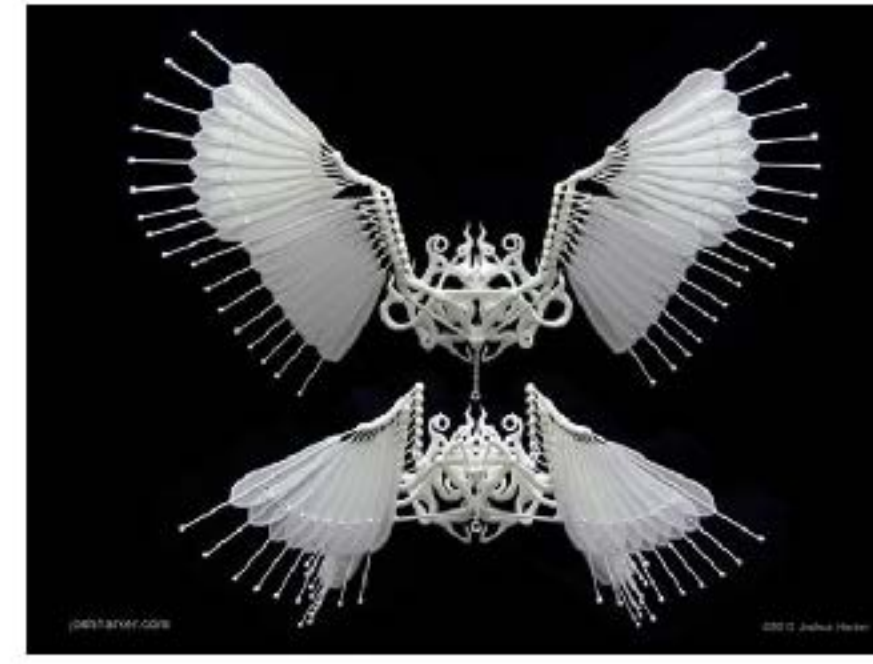
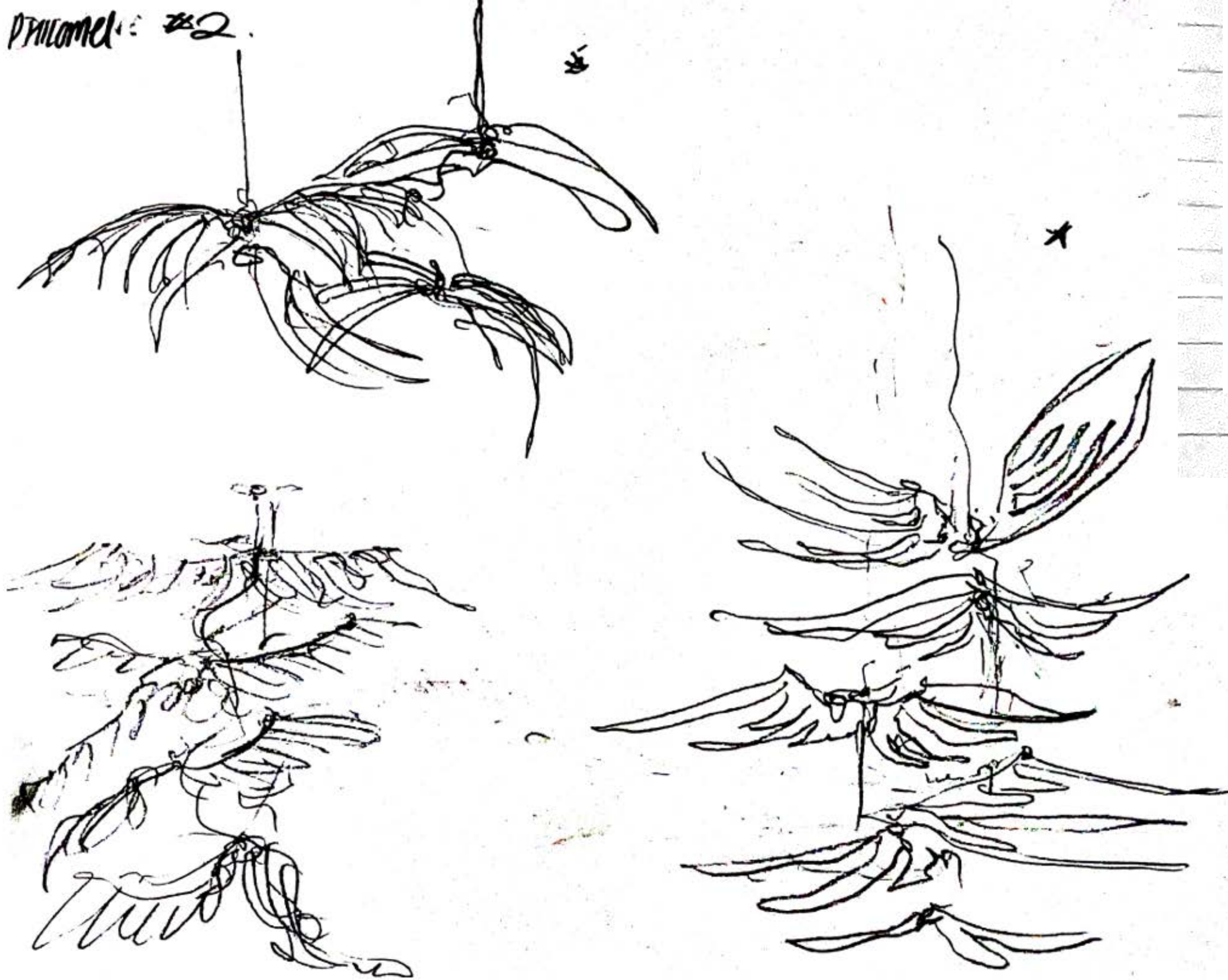
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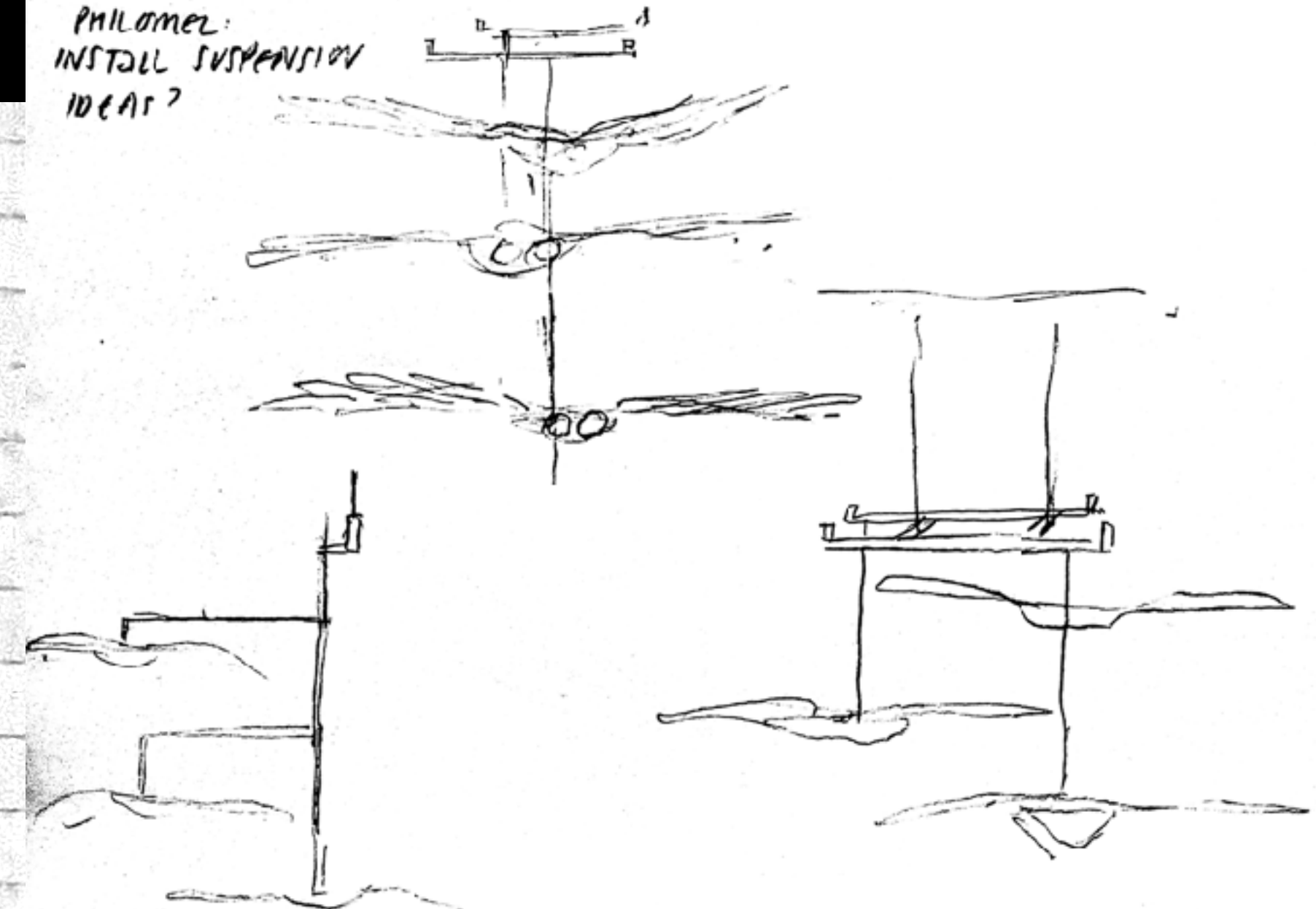


philomel.

Philomel: #2.



Philomel:
INSTALL SUSPENSION
IDEAS?

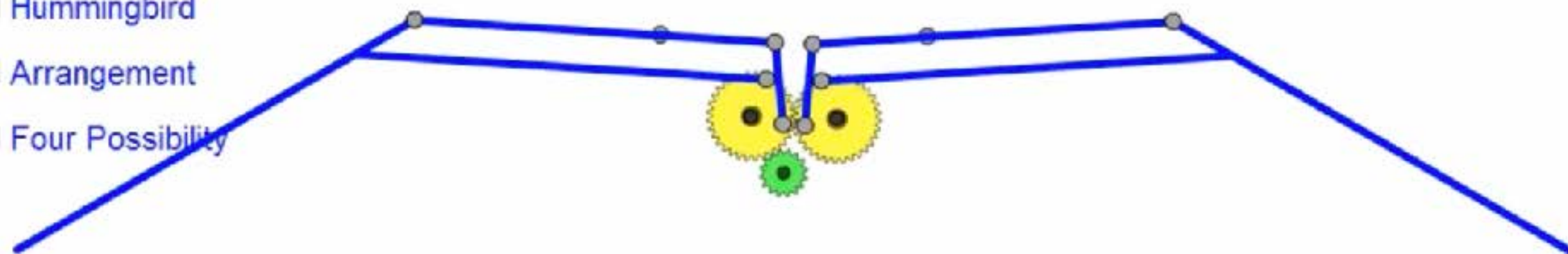


- ☐ Swallow
- ☒ Feathers
- ☐ Observer
- ☒ Lilienthal
- ☐ Air Flow
- ☐ Birds
- ☐ Hummingbird
- ☐ Arrangement
- ☐ Four Possibility

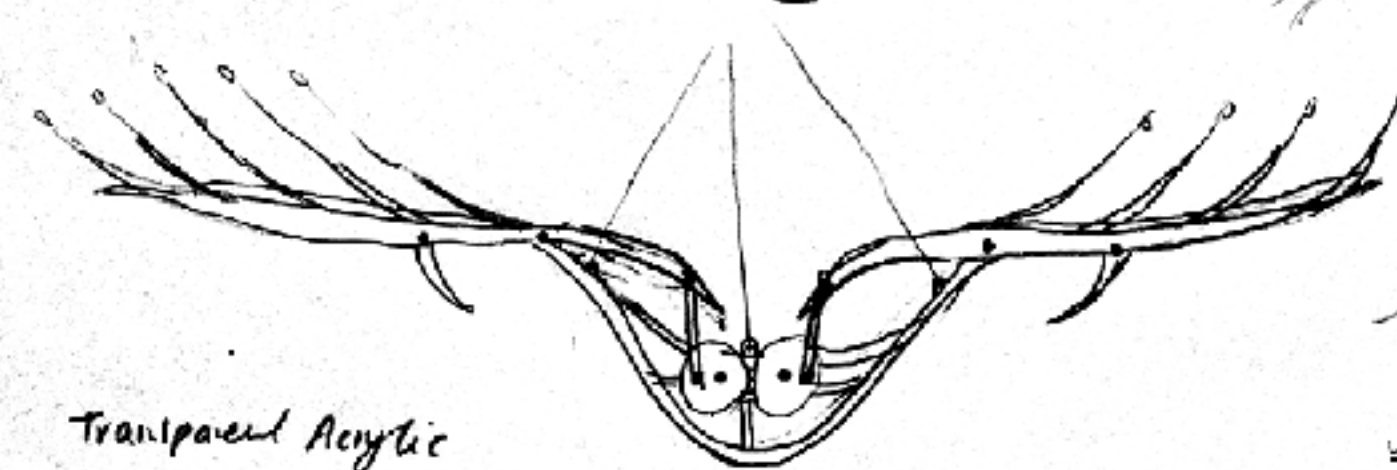
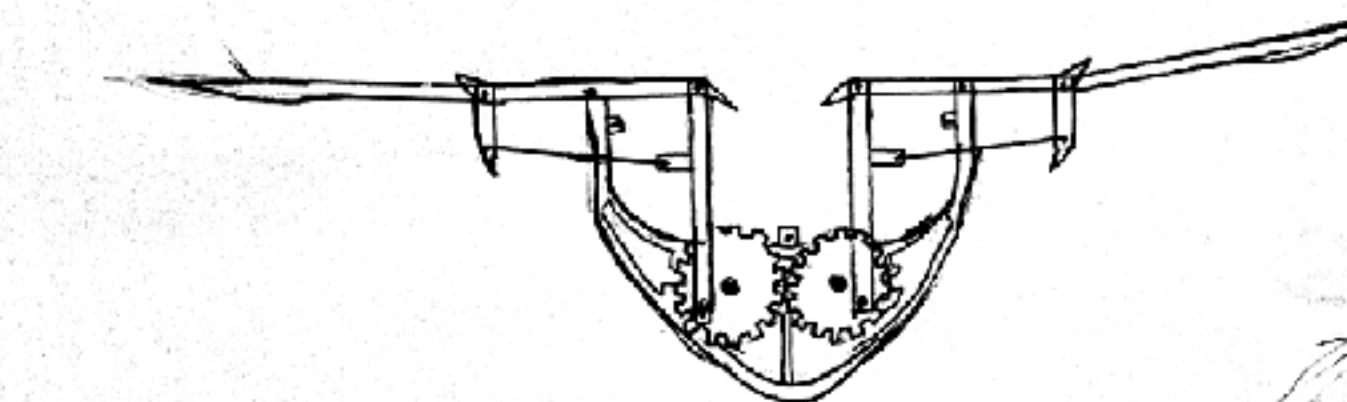
Flapping Speed



Section through pinion.
Fig. 87.

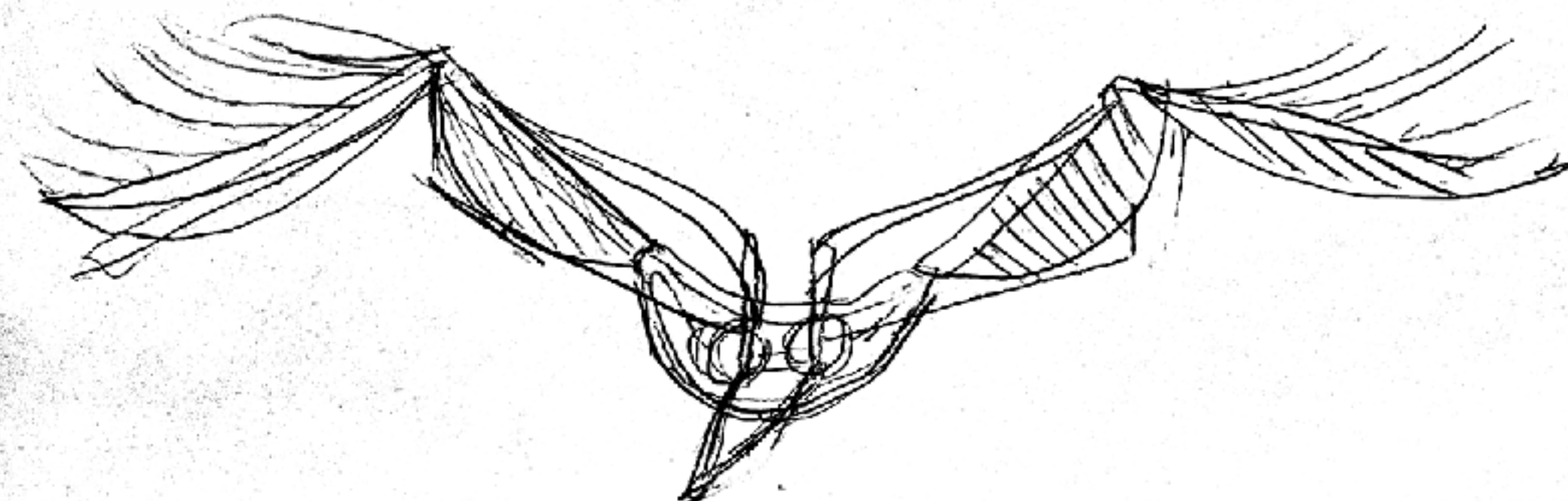


PHILOMEL - ORNITHOPTER #2.



Transparent Acrylic
or Pla

ADDITIONS .

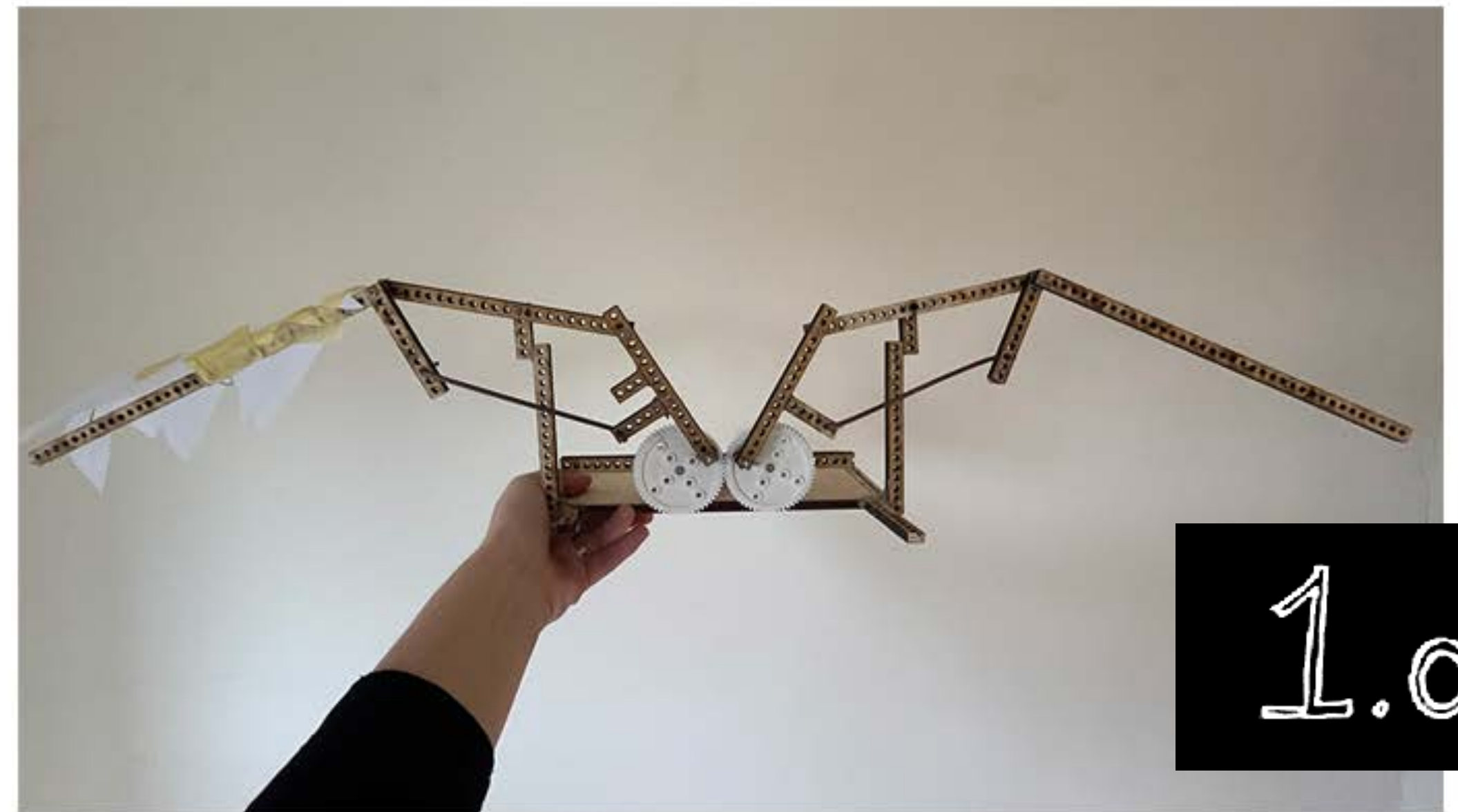
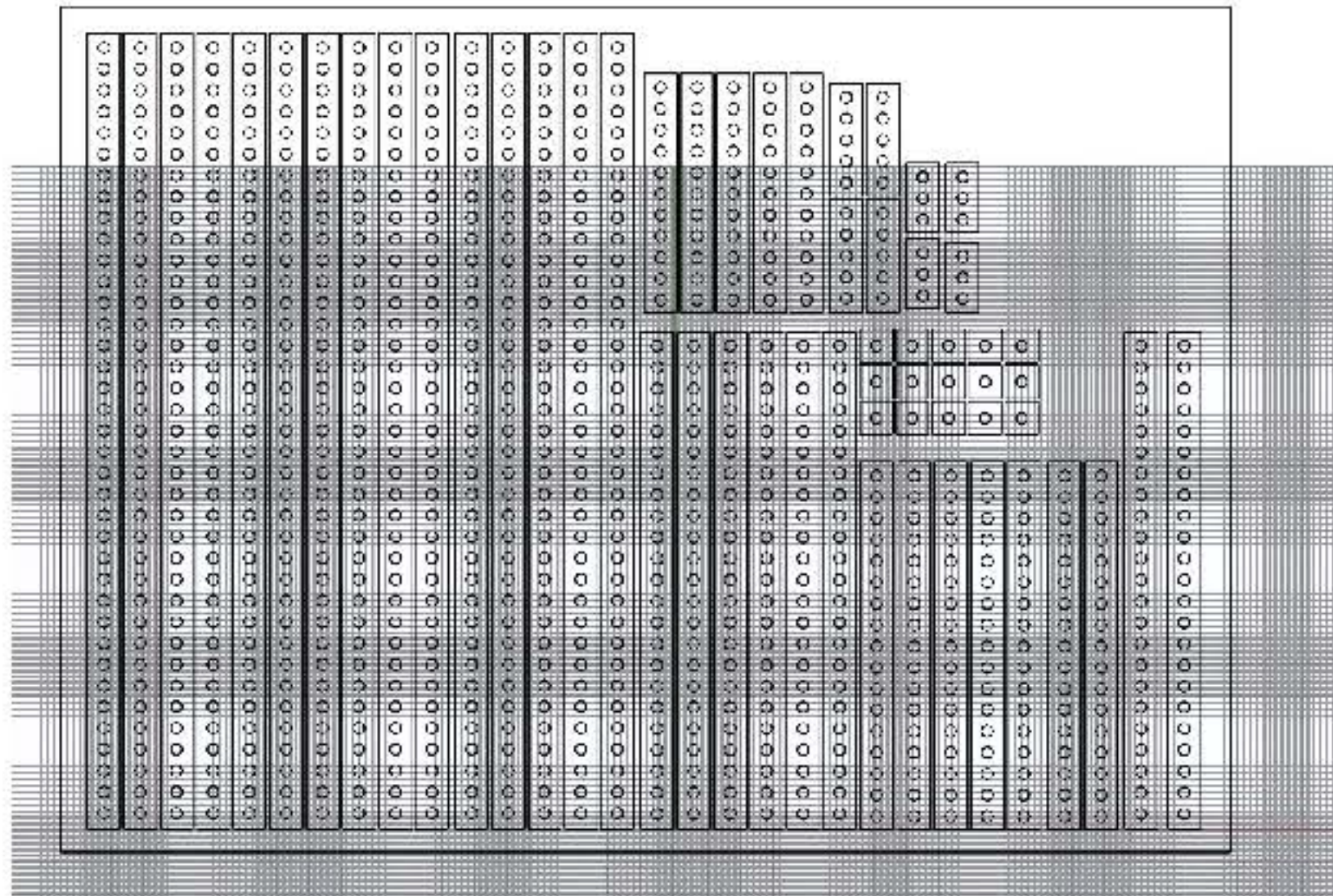
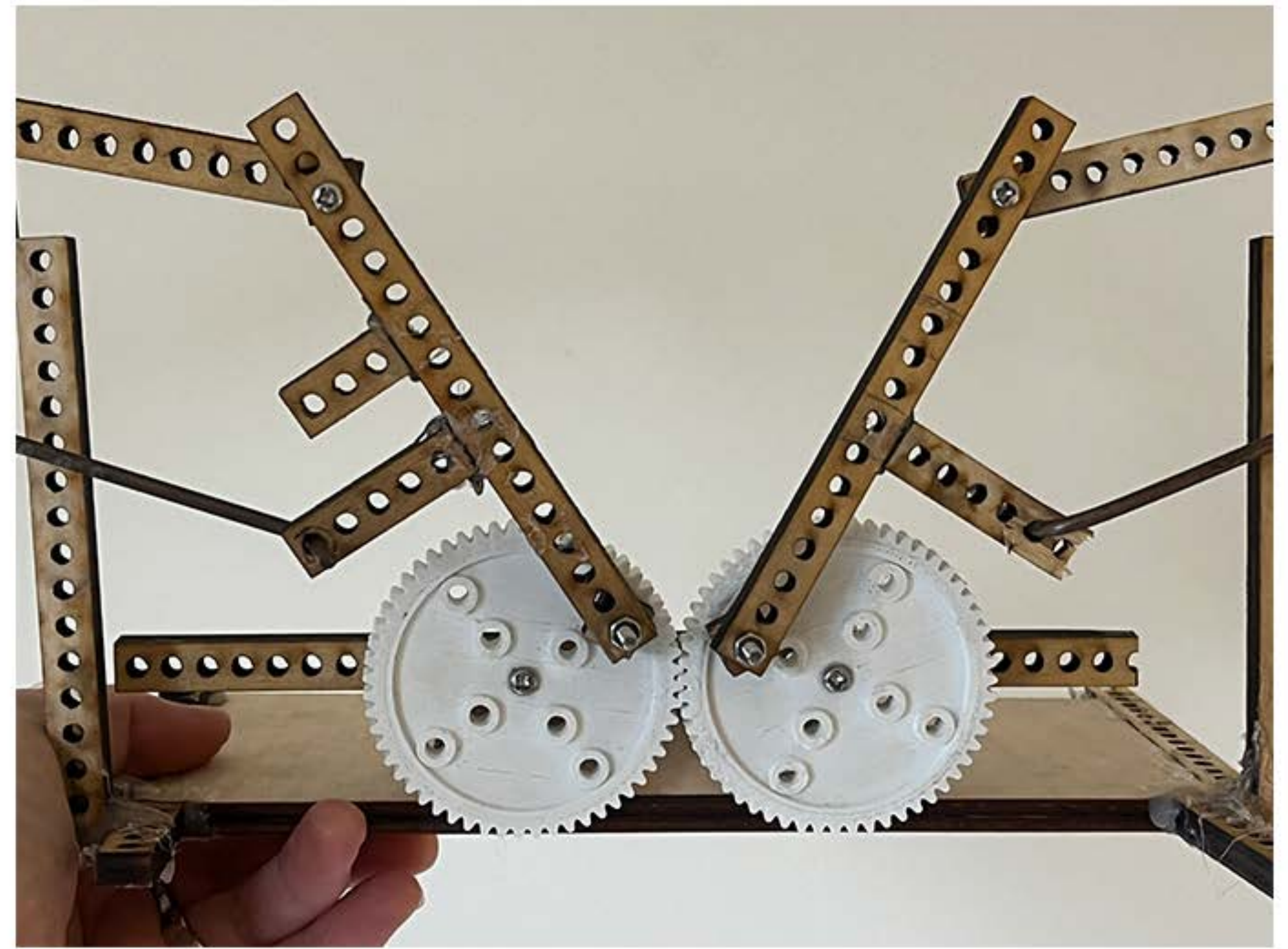
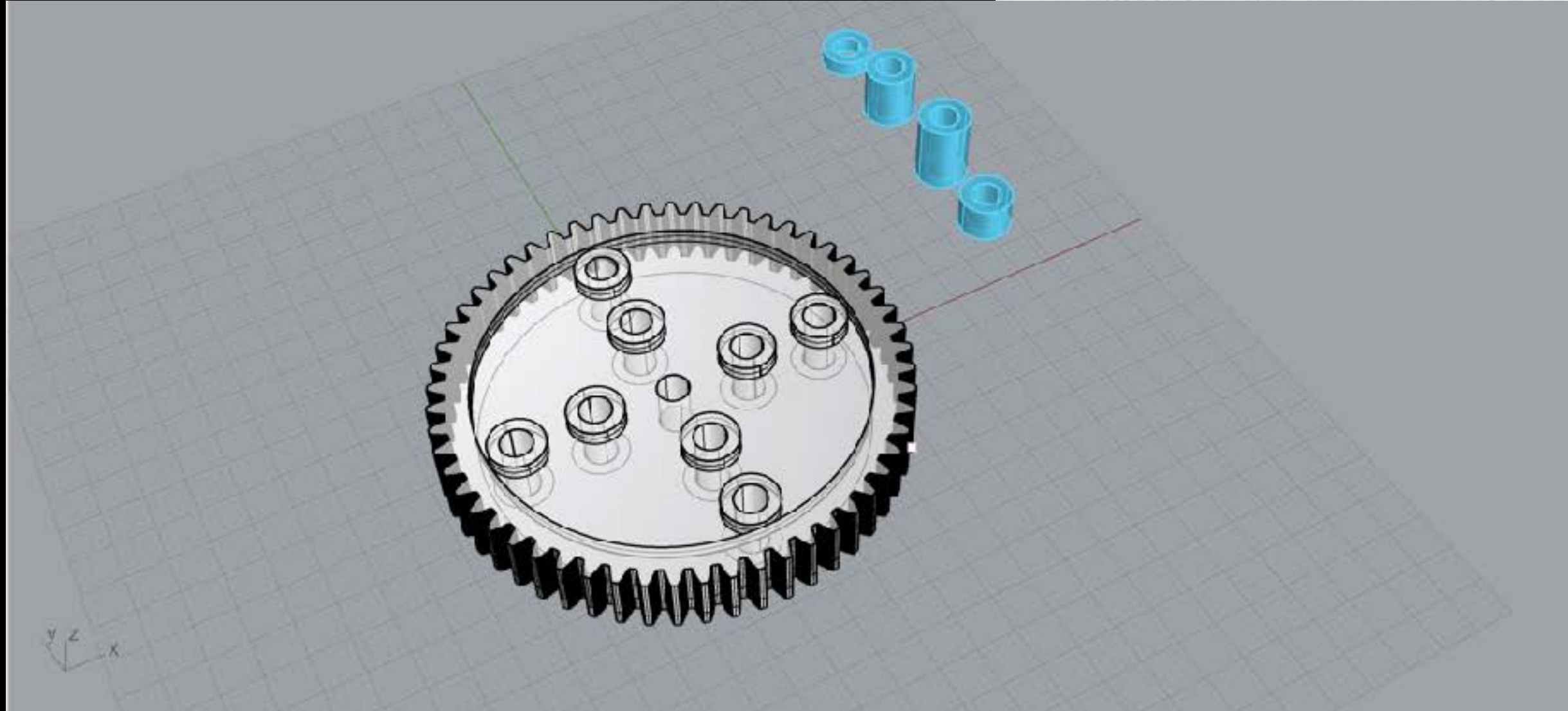


Smooth linkage system
Upward stroke
Extension
Fold

prototype motion



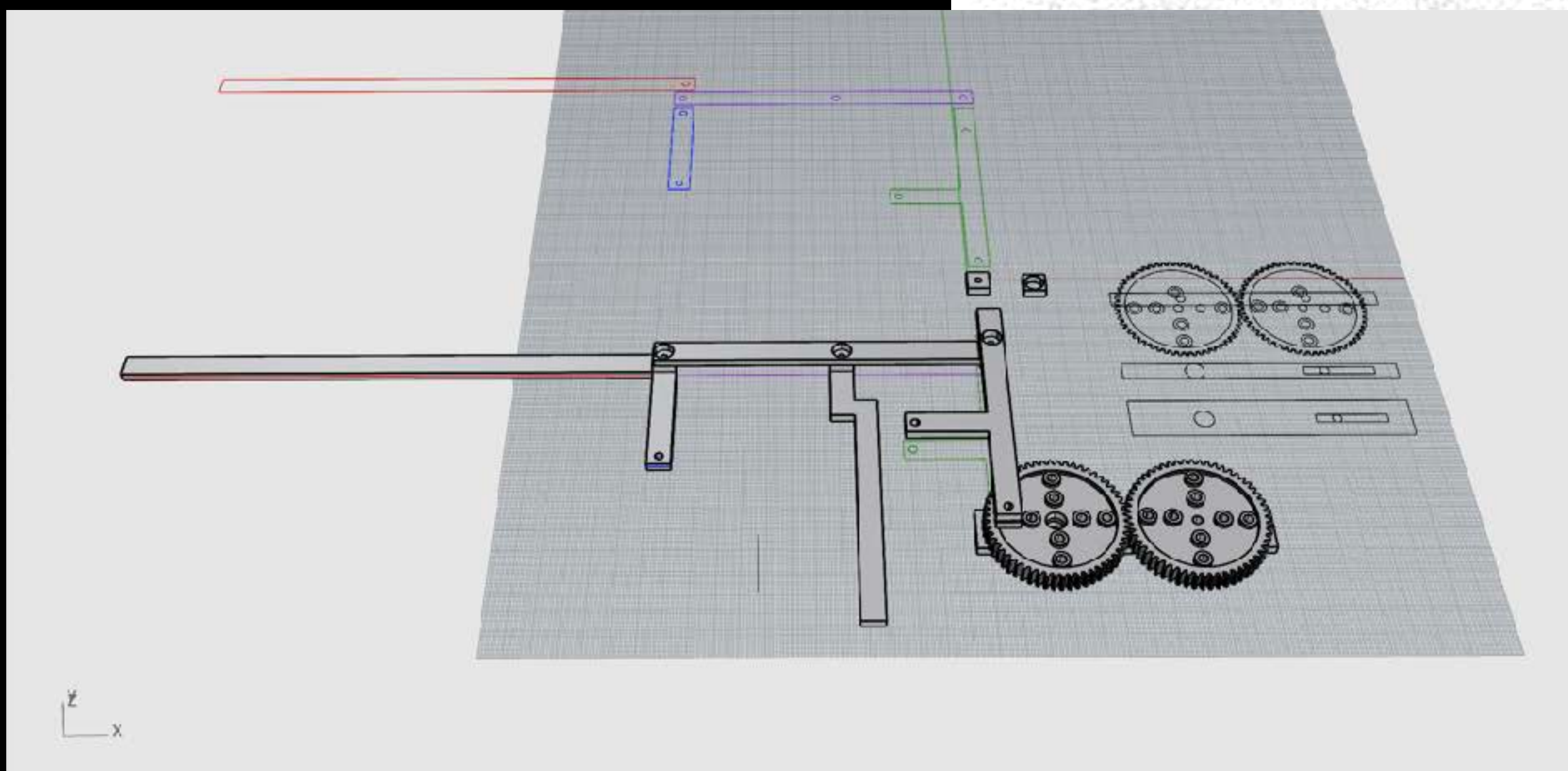
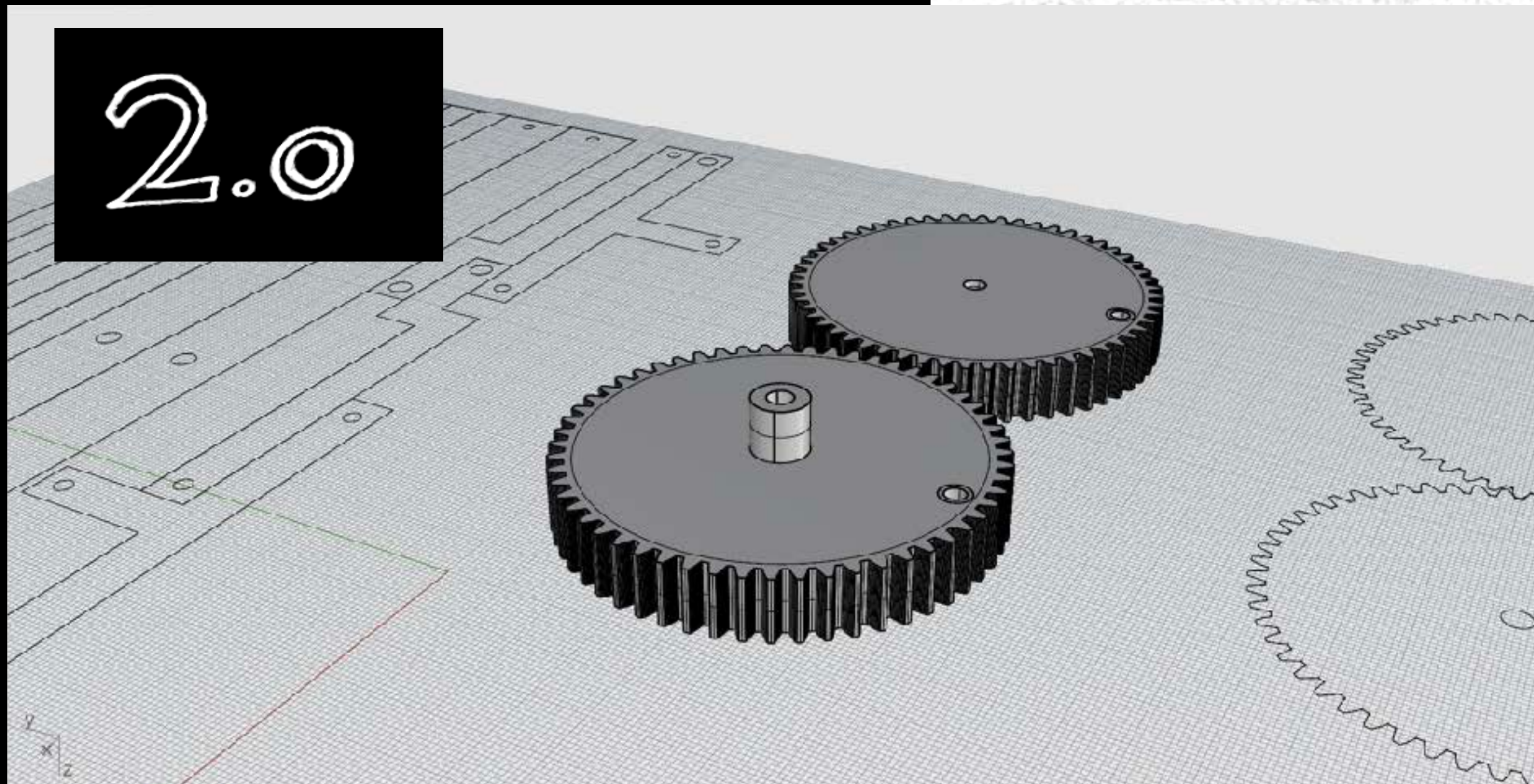
philomel.

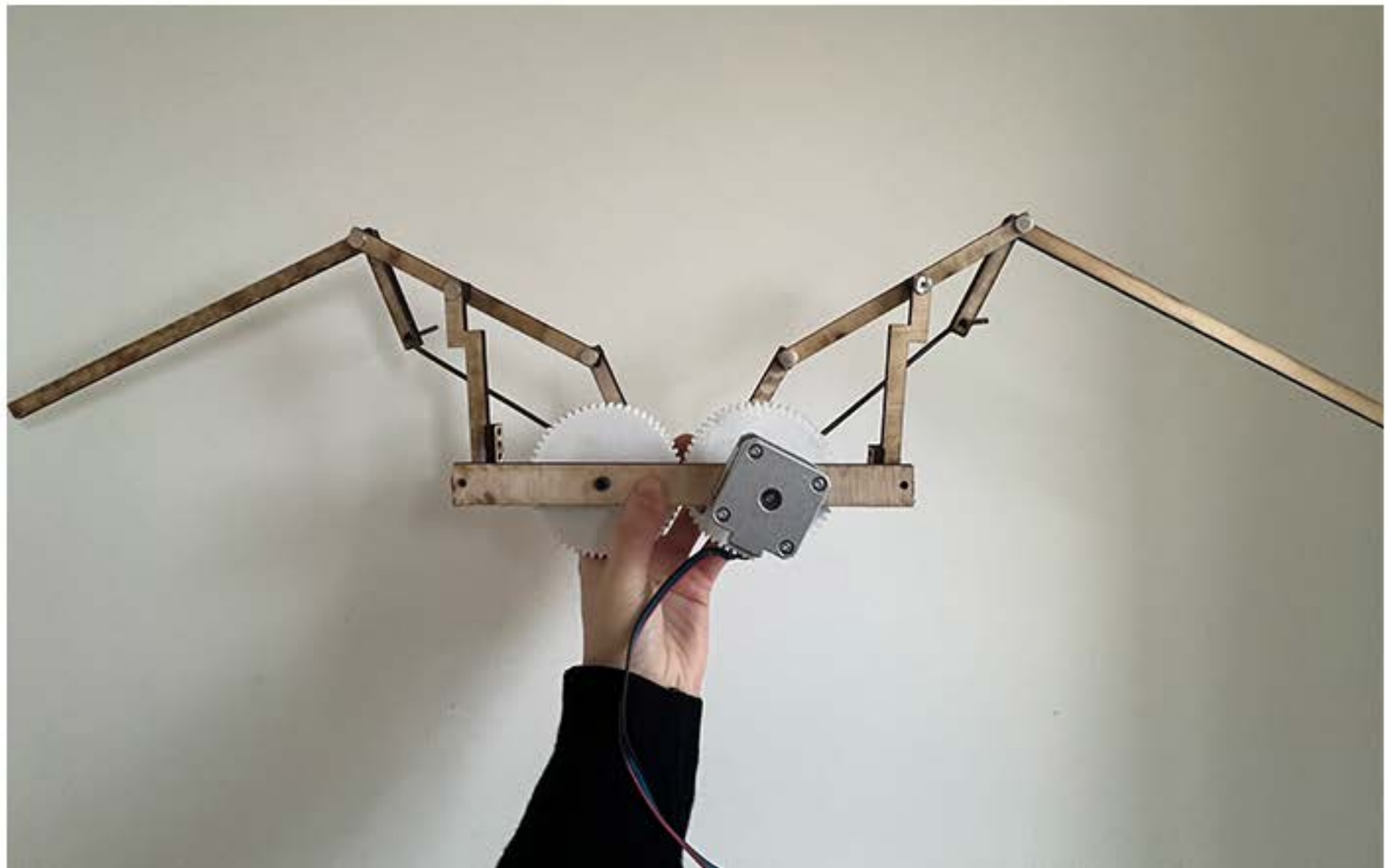
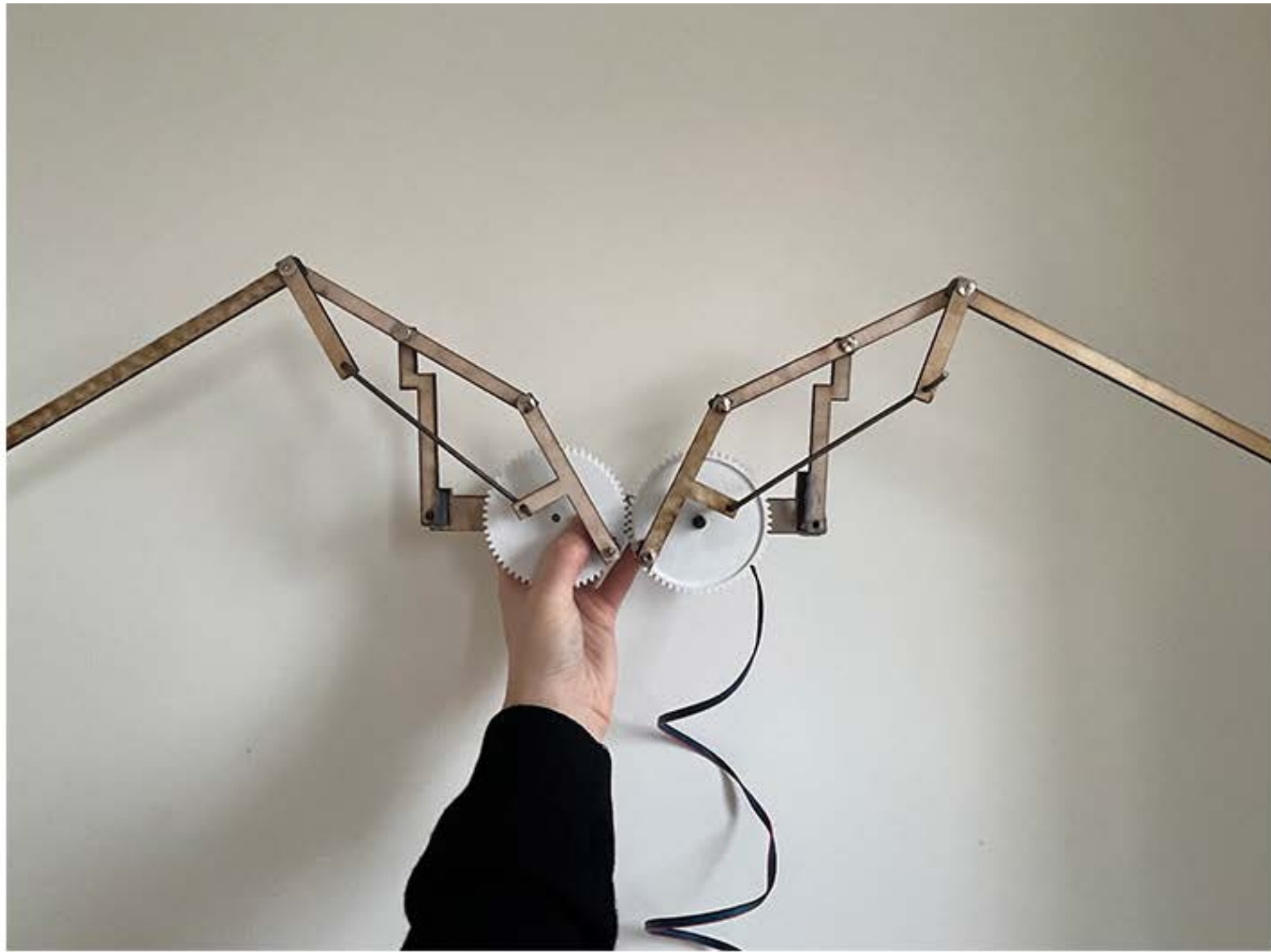


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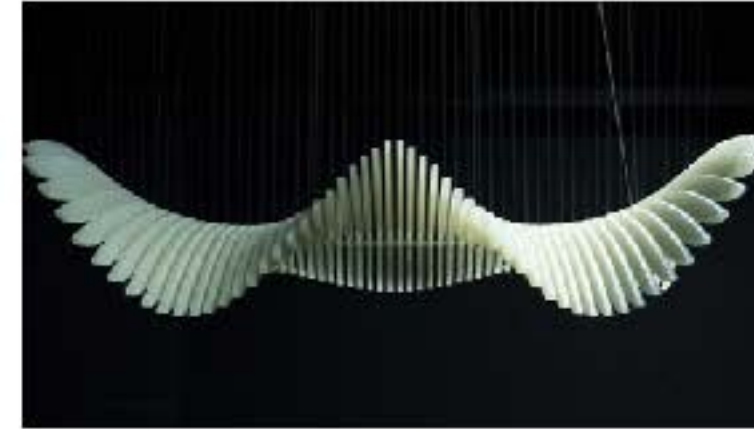
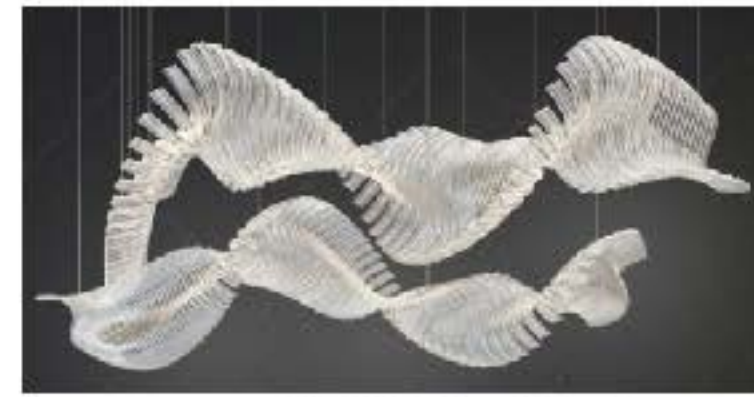
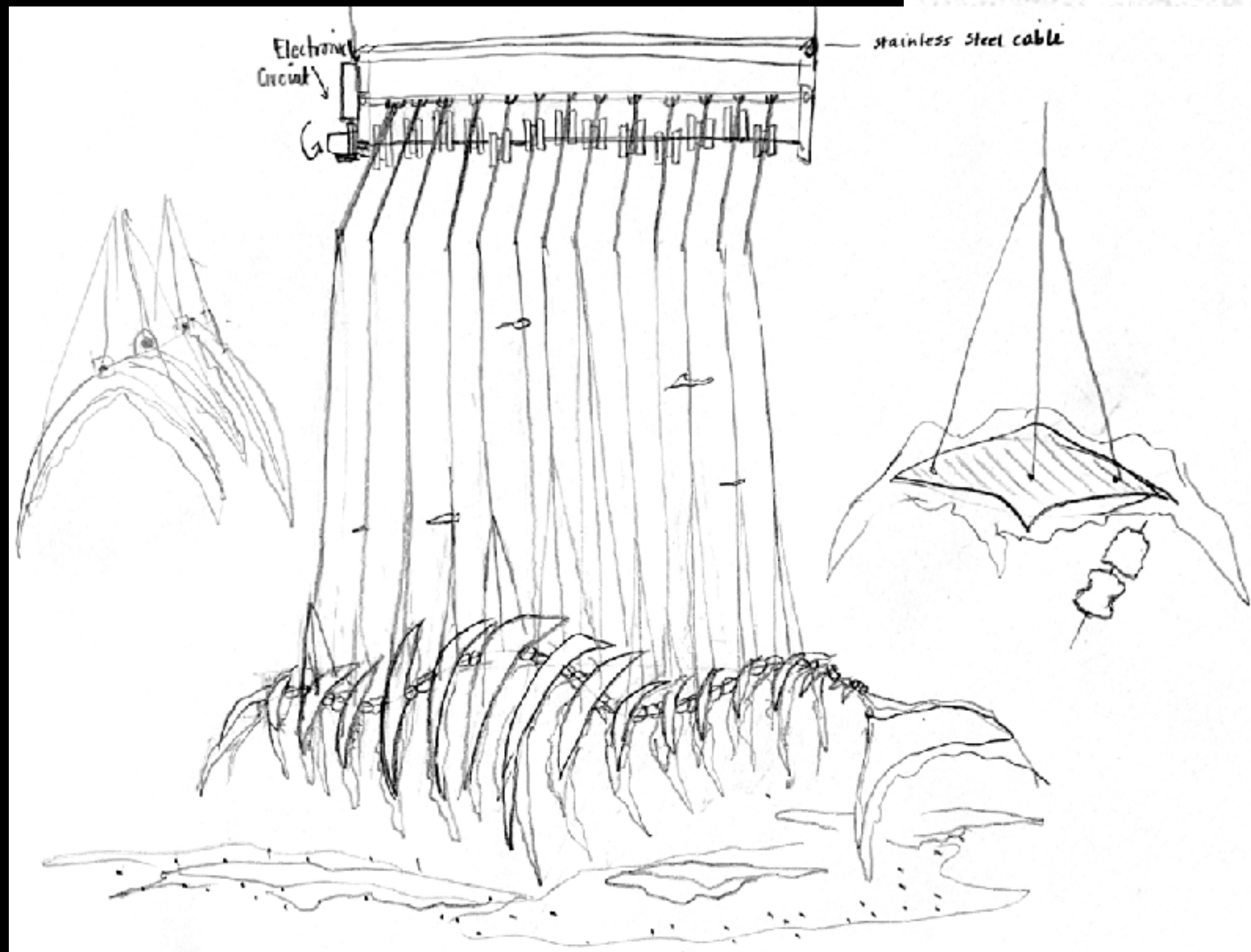
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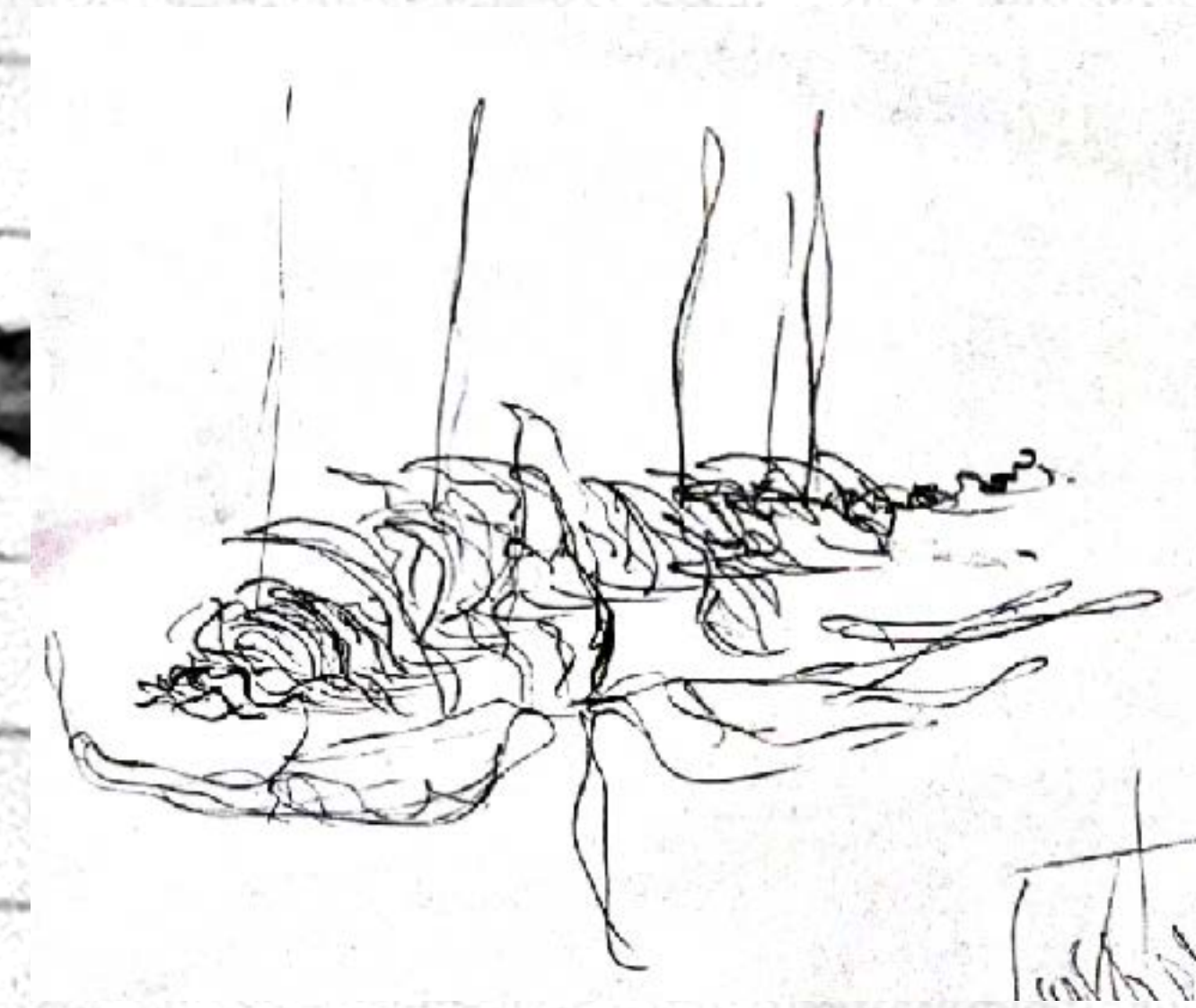




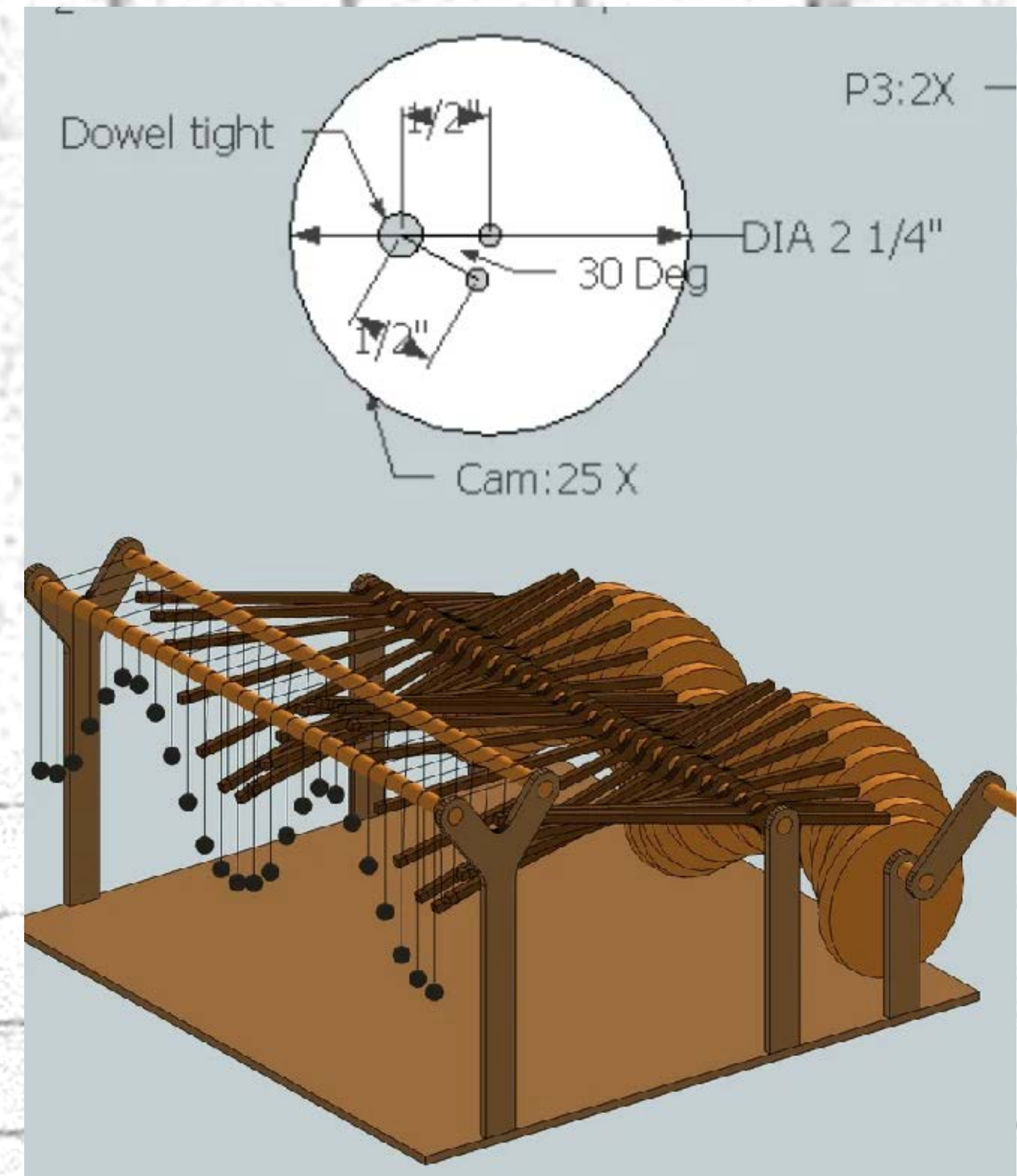
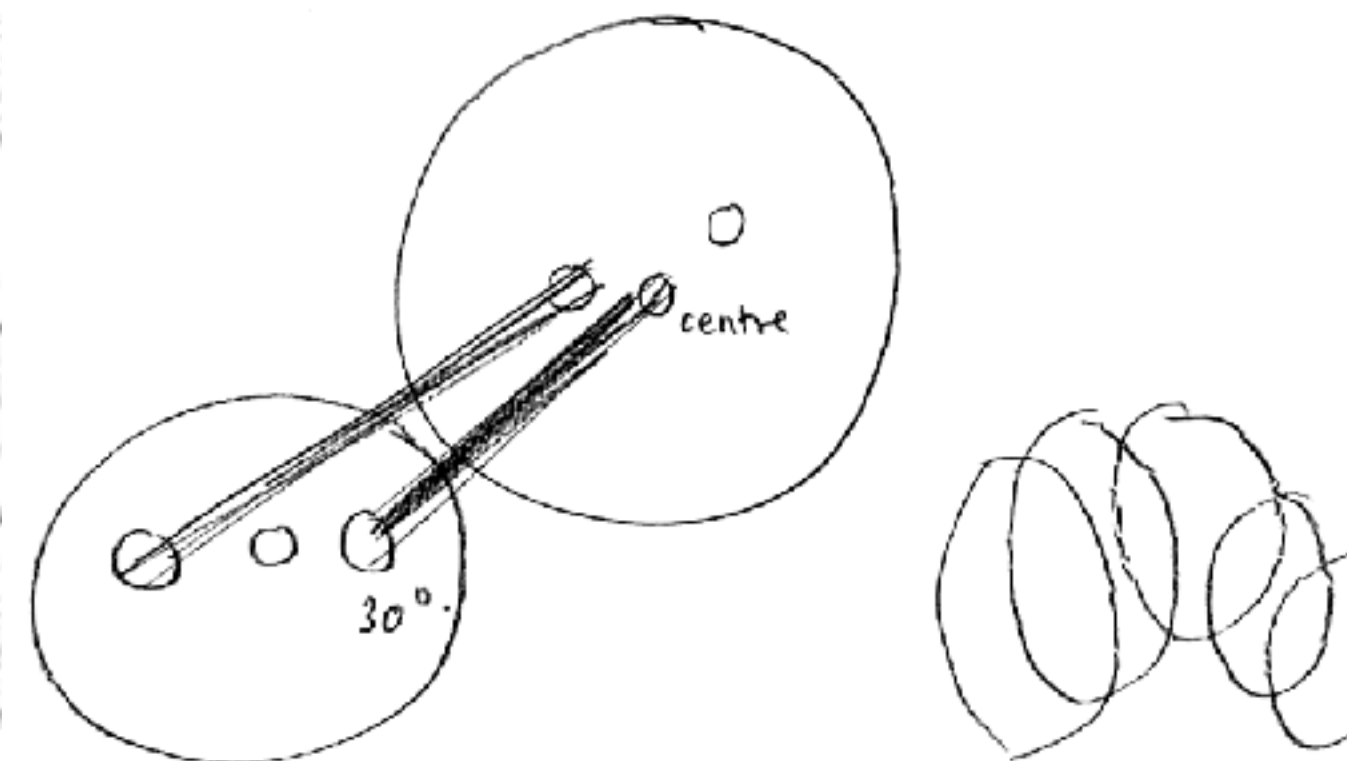
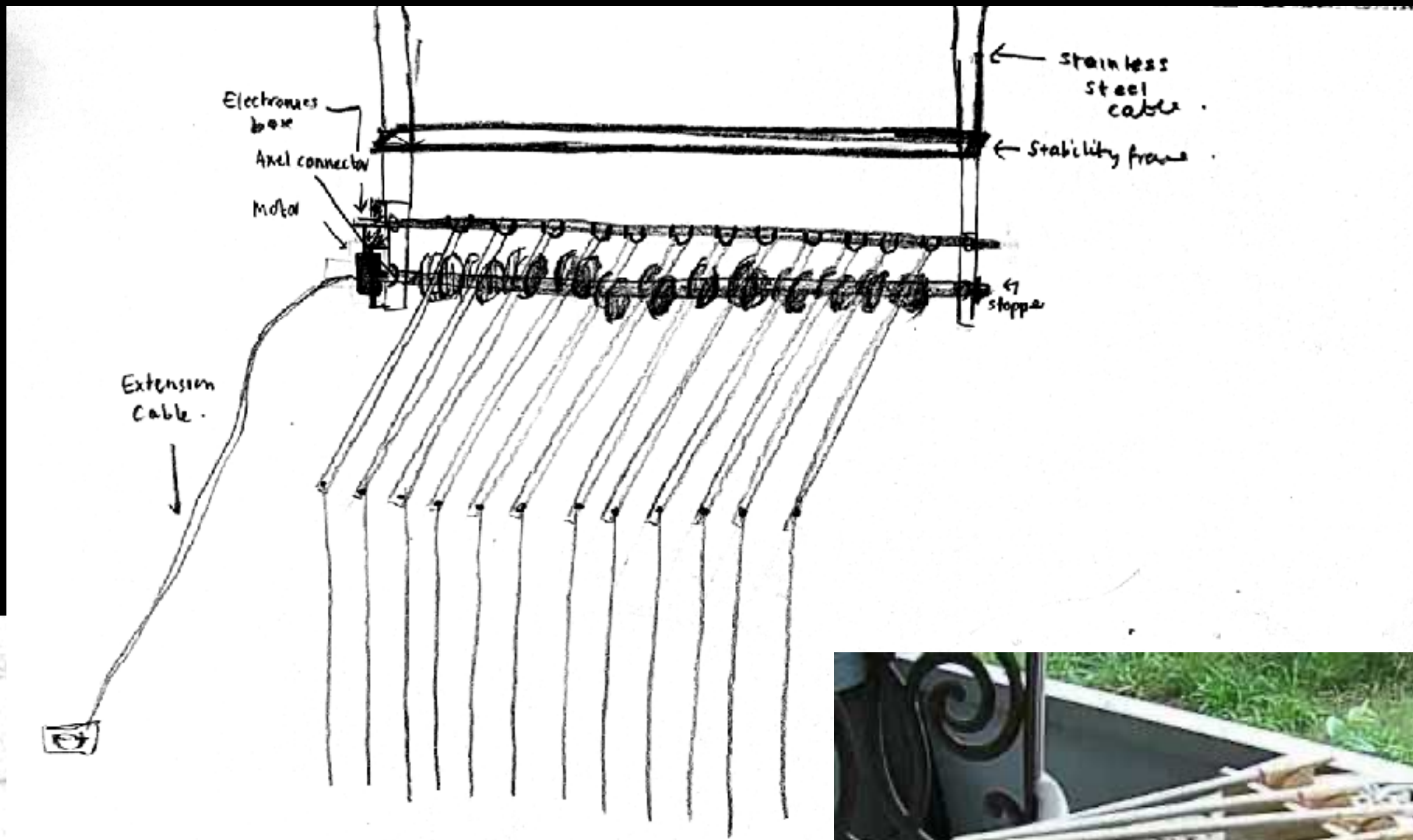
amphitrite.



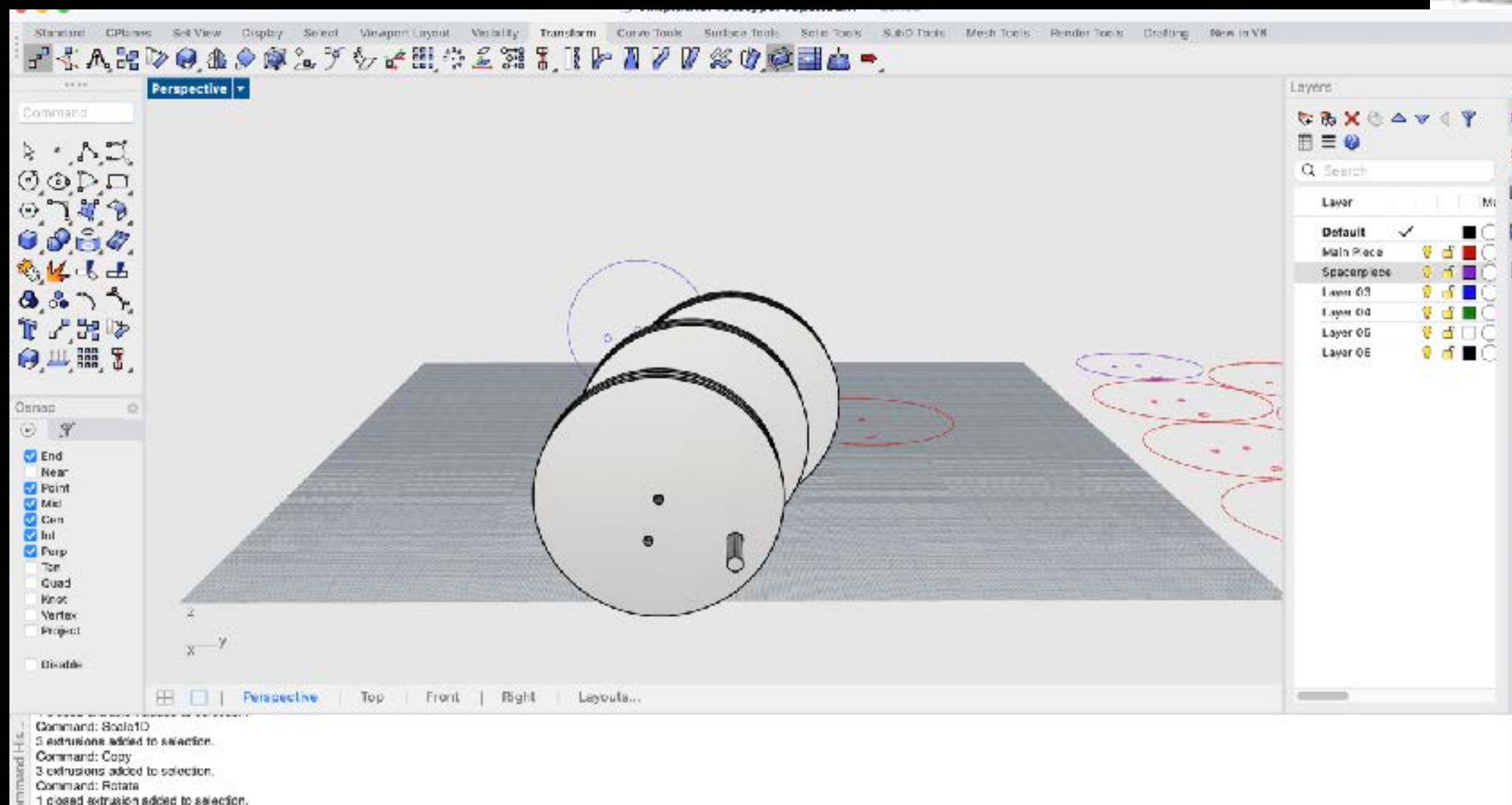
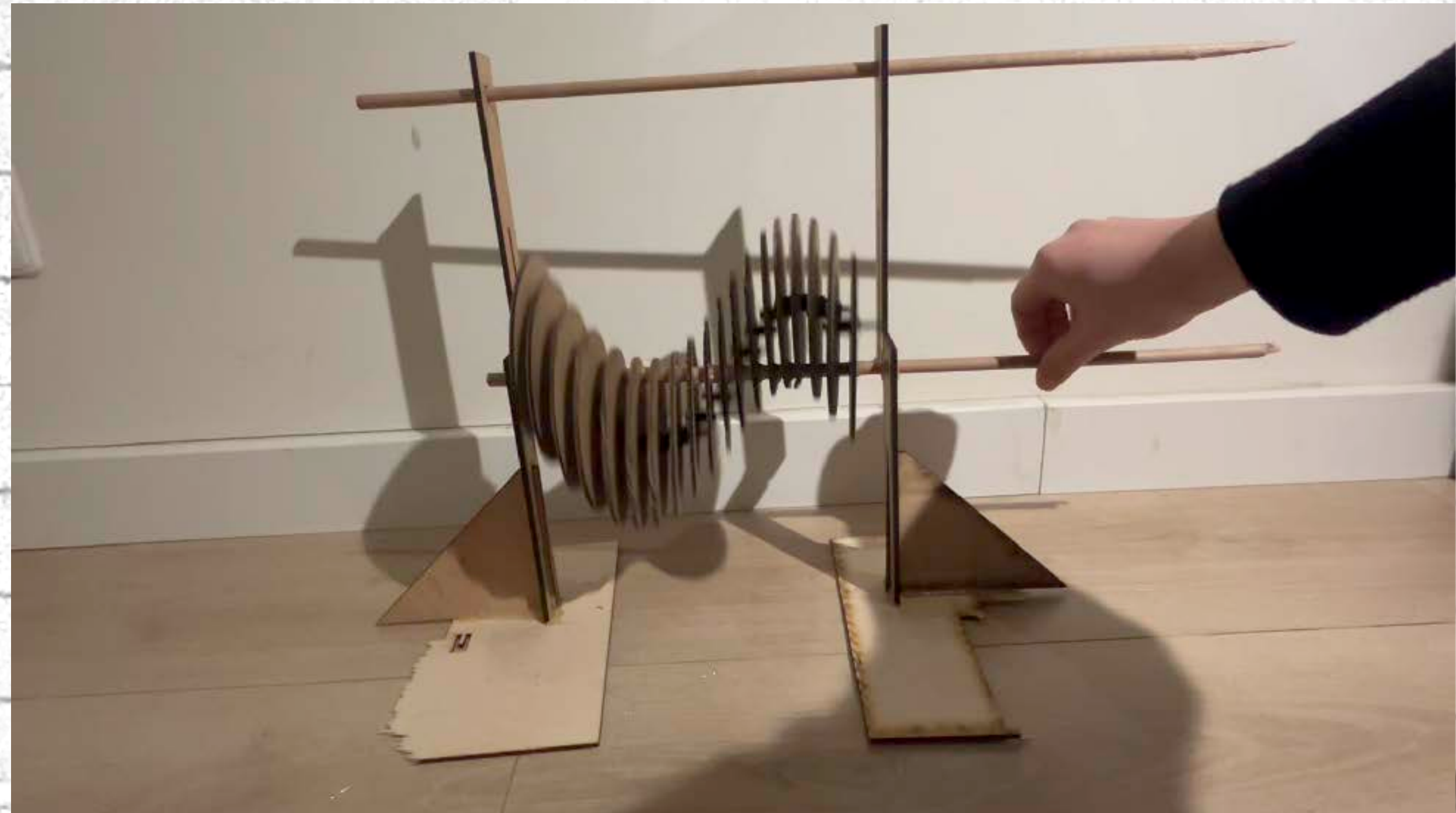
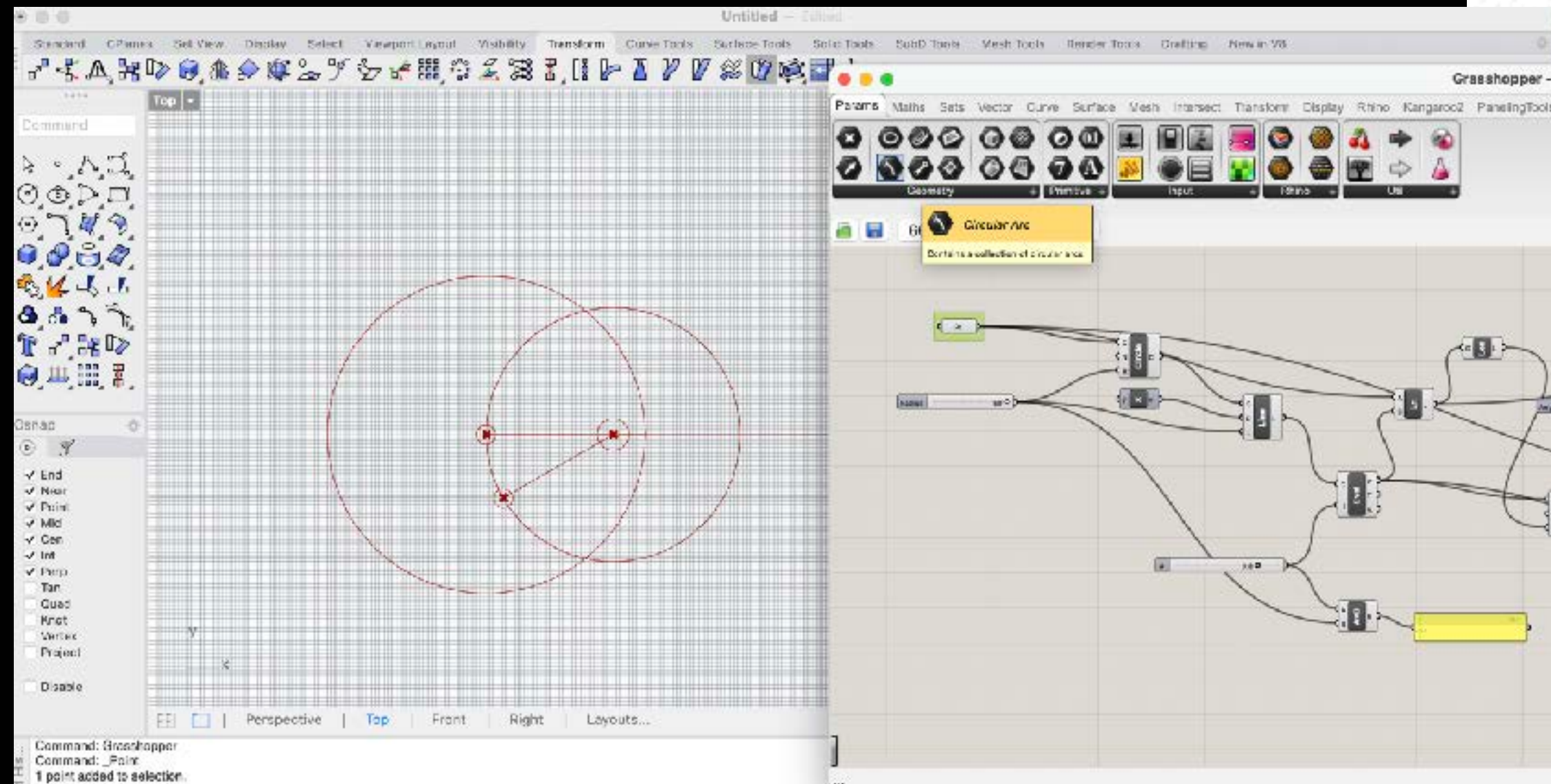
Sine Wave
Undulatory Locomotion
(Can swim?)
Immyform



prototype motion

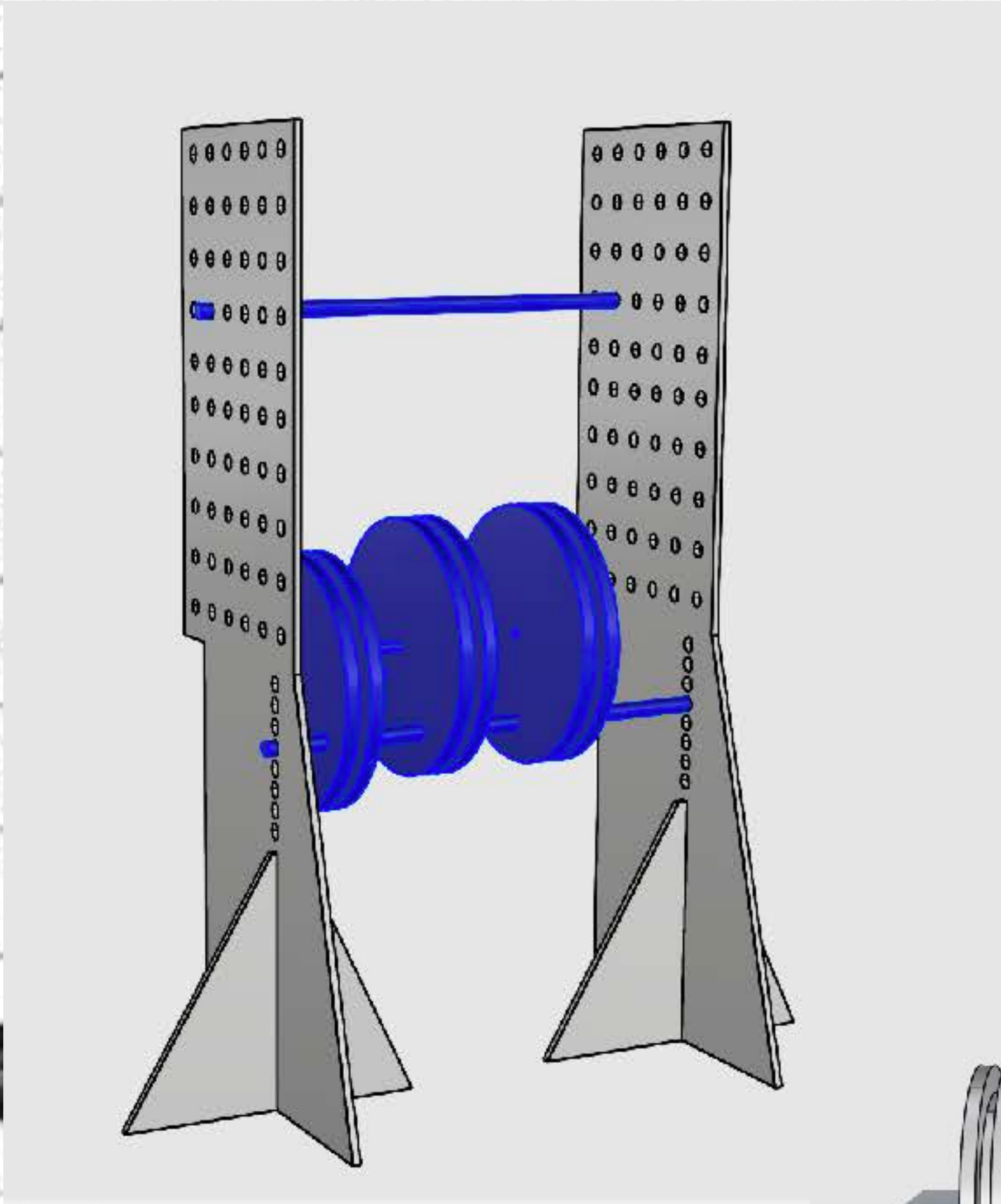


amphitrite.

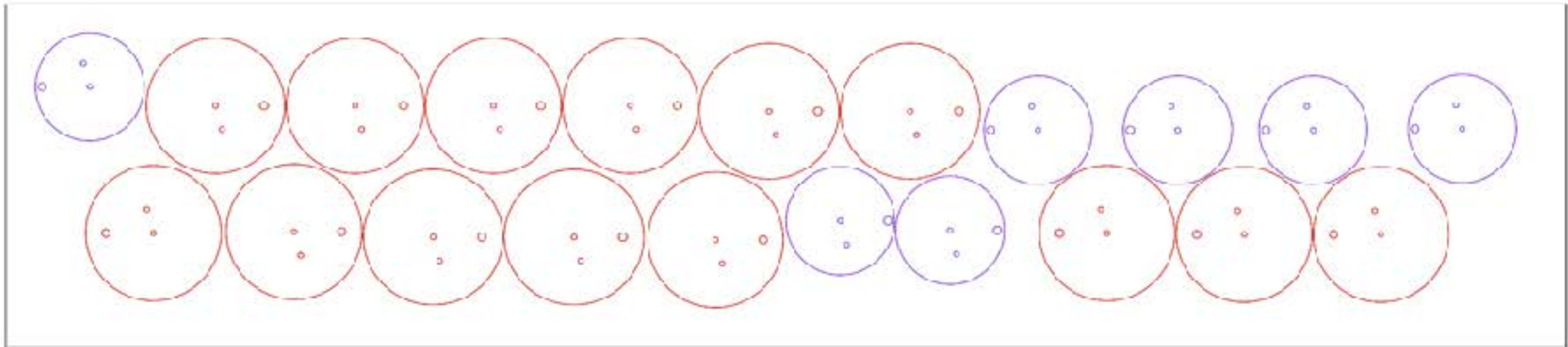
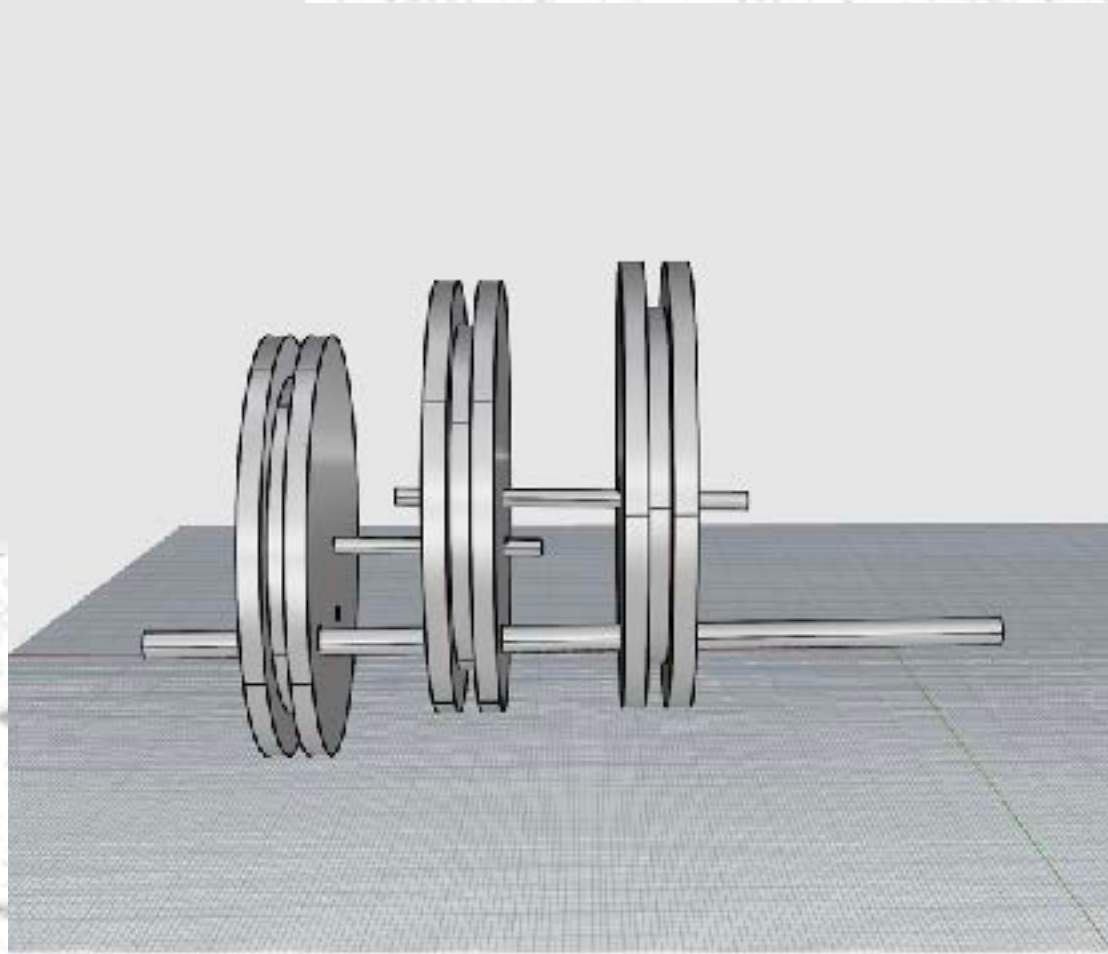


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amphitrite.



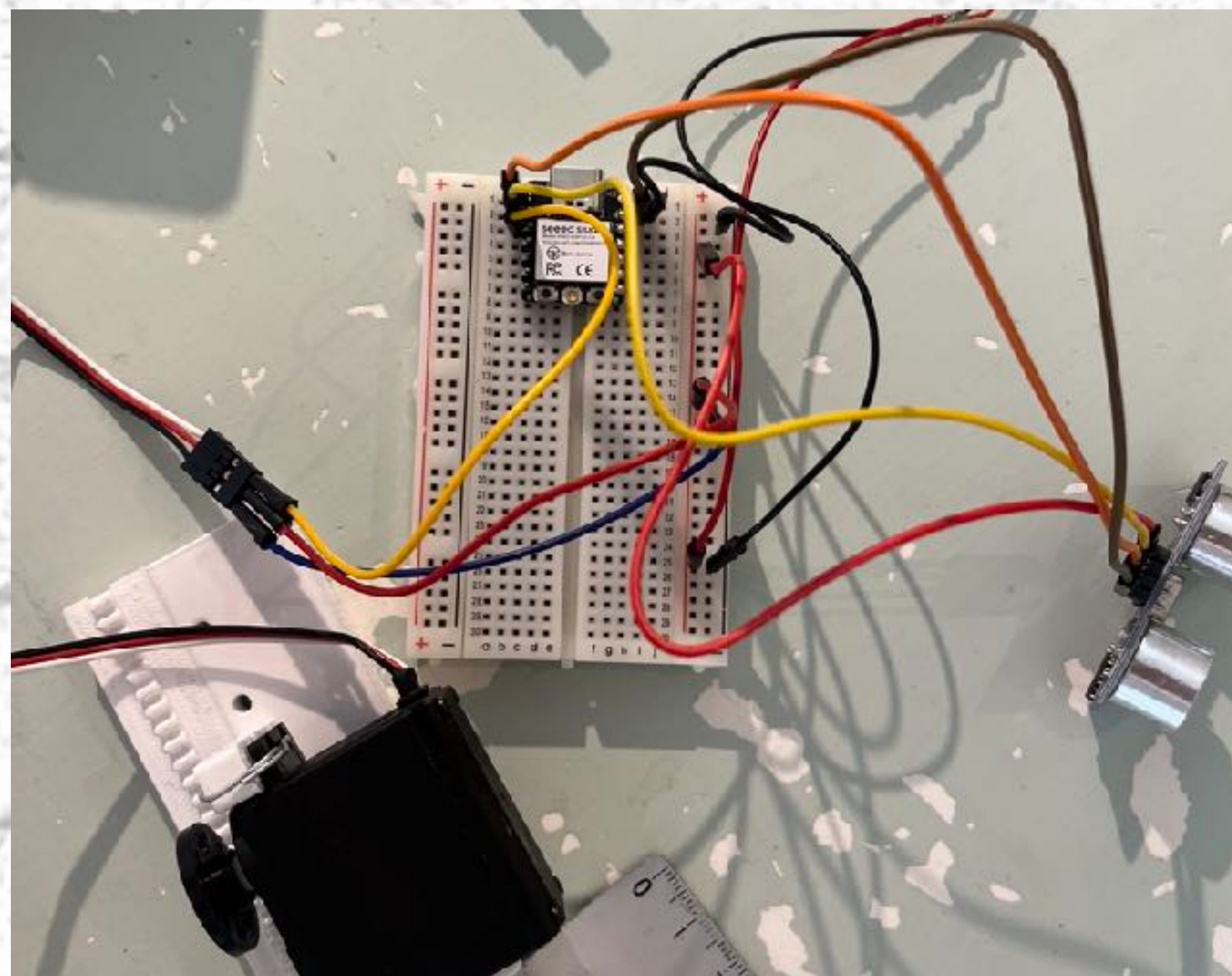
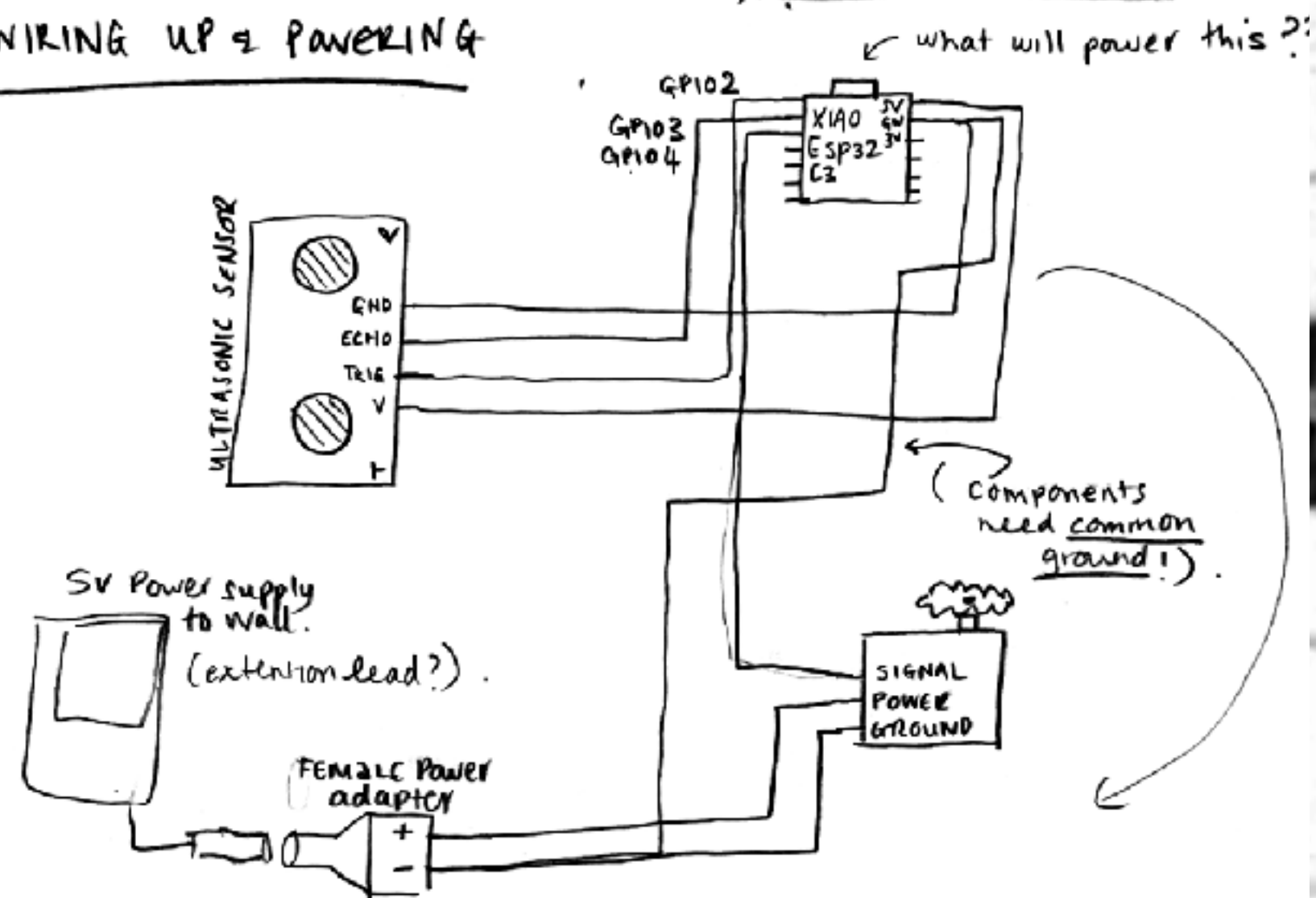
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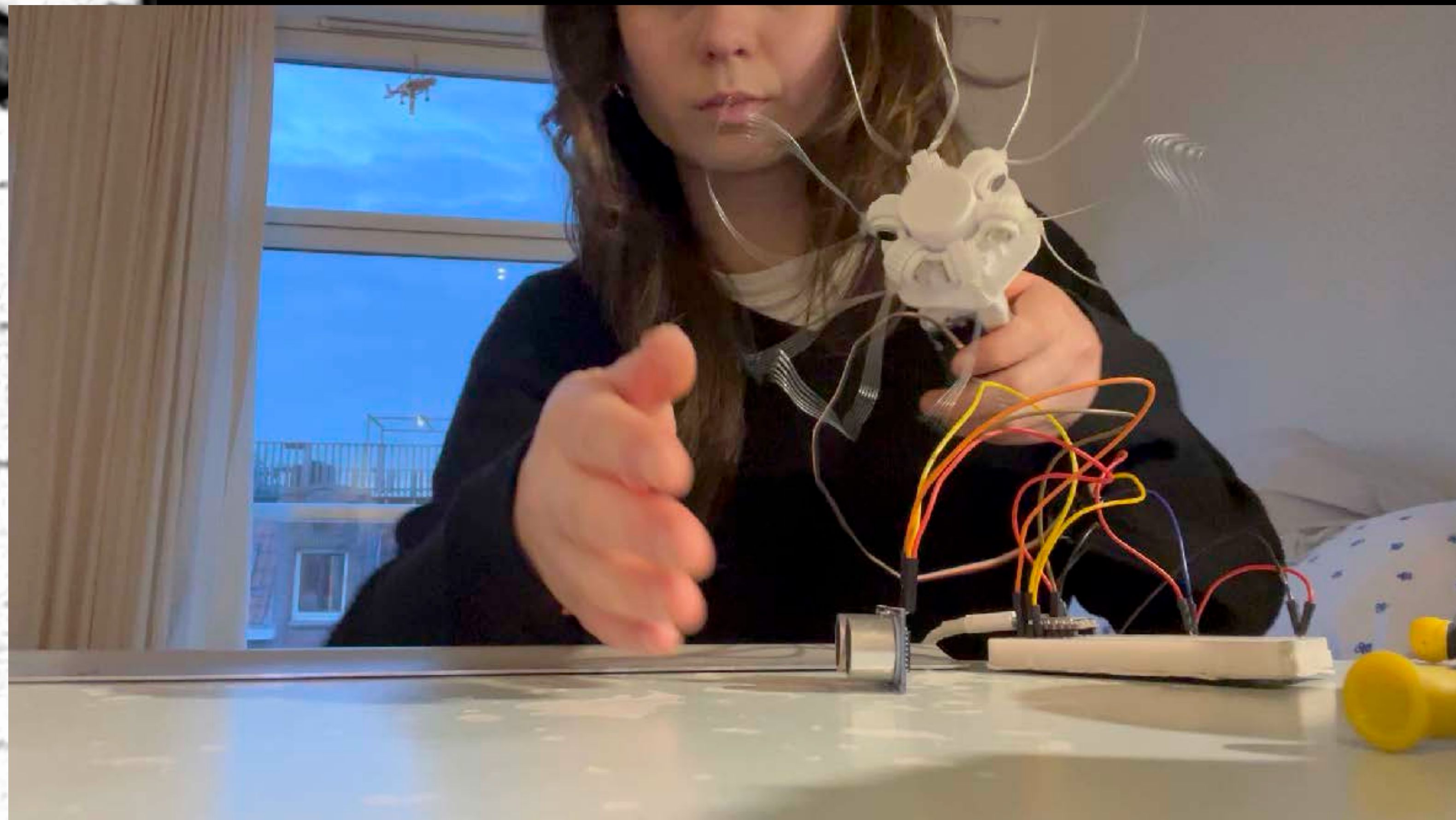
phase two : electronic interaction

ULTRASONIC PROXIMITY SENSOR WITH SERVO FOR DAPHNE

WIRING UP & POWERING



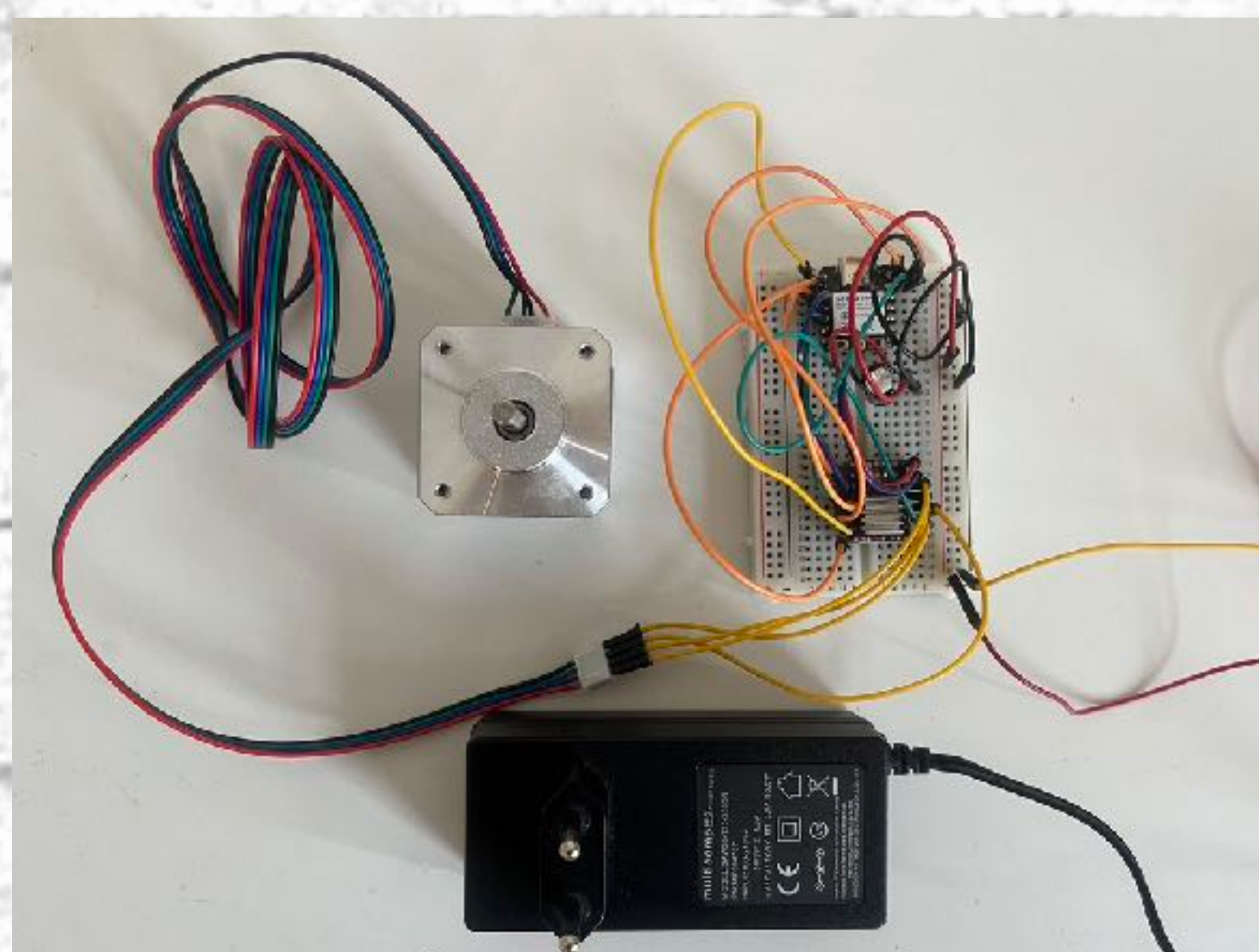
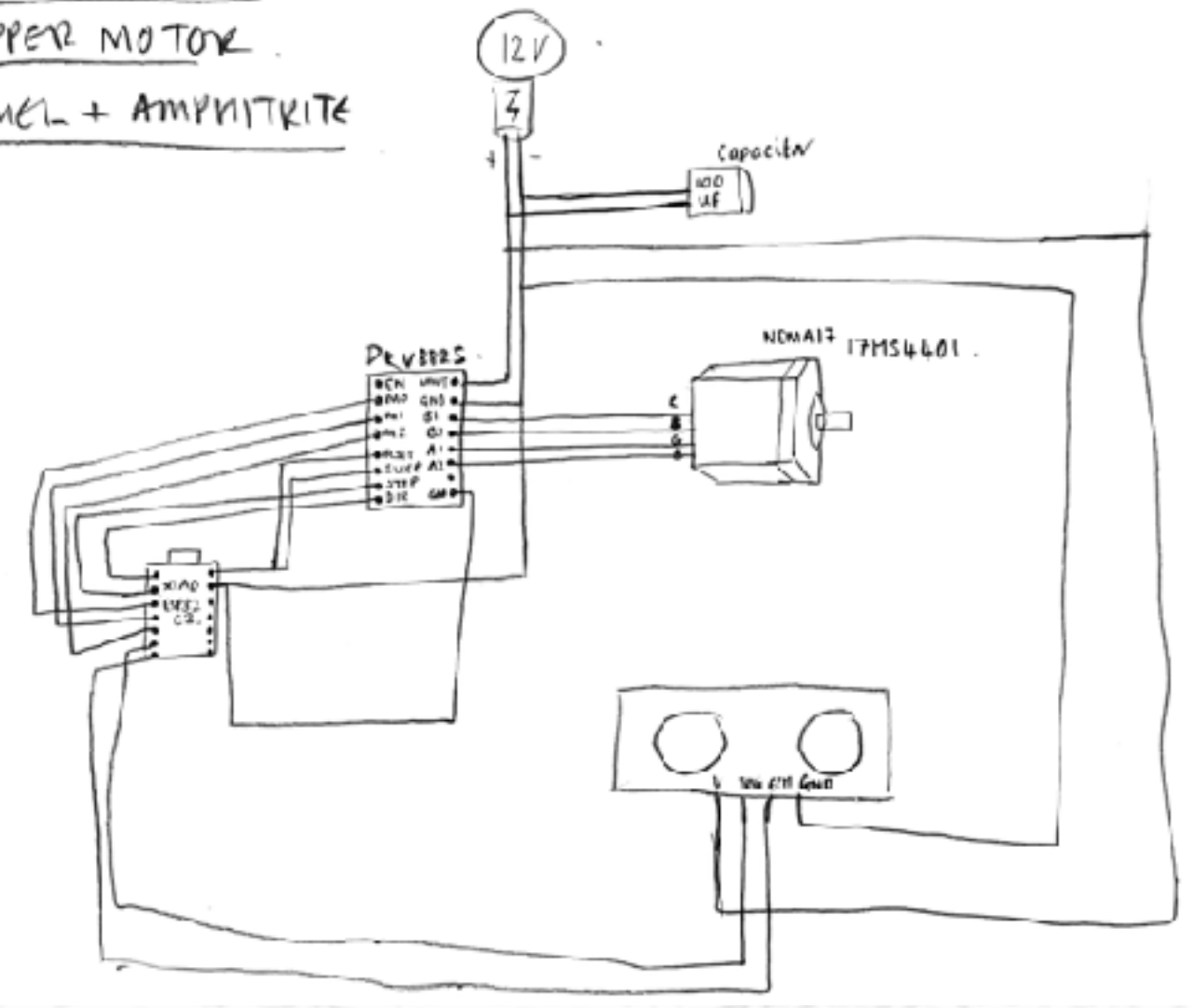
daphne



electronic interaction

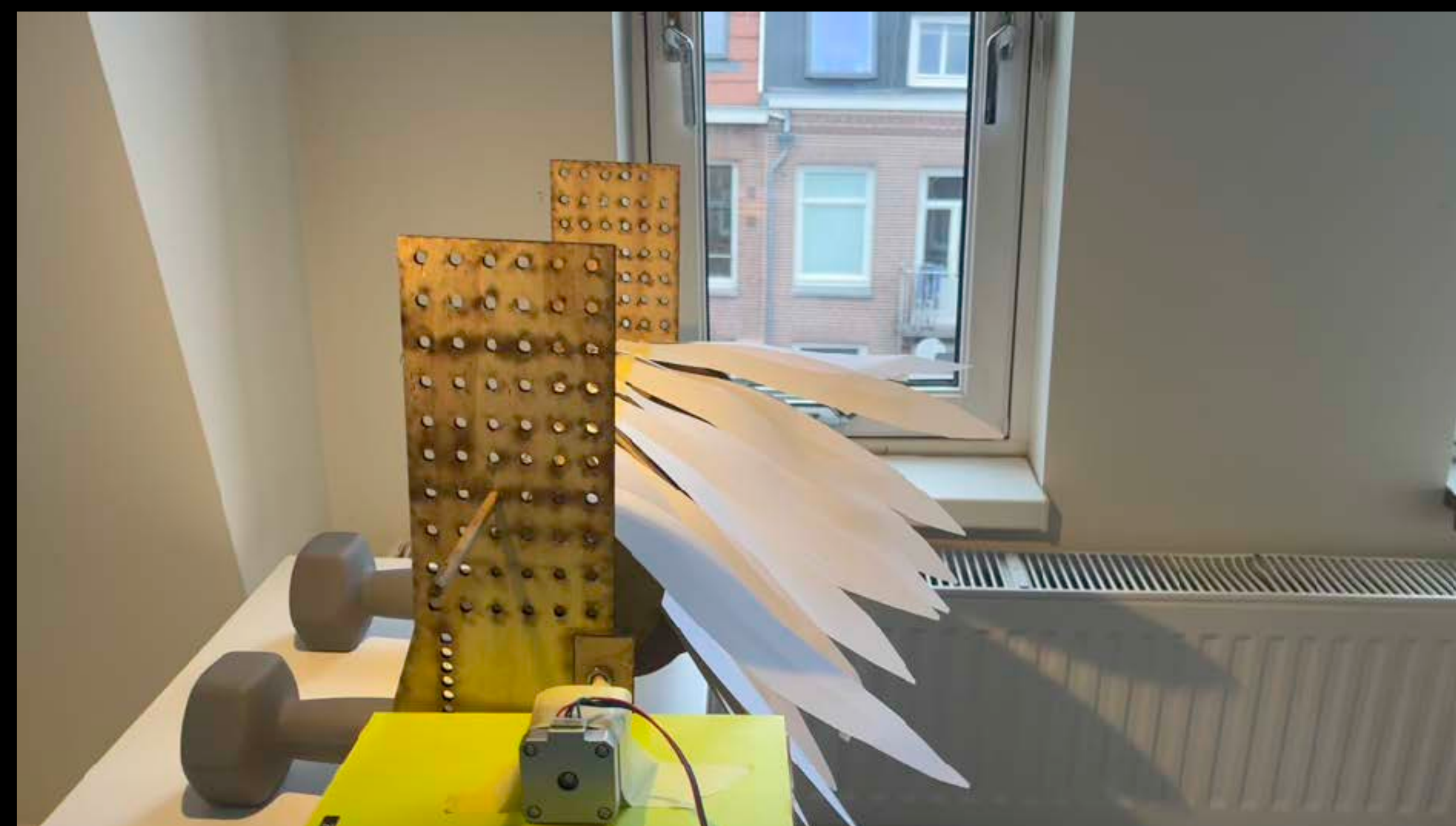
amphitrite.

ULTRASONIC
PROXIMITY SENSOR WITH
STEPPER MOTOR
PHILOMEL + AMPHITRITE



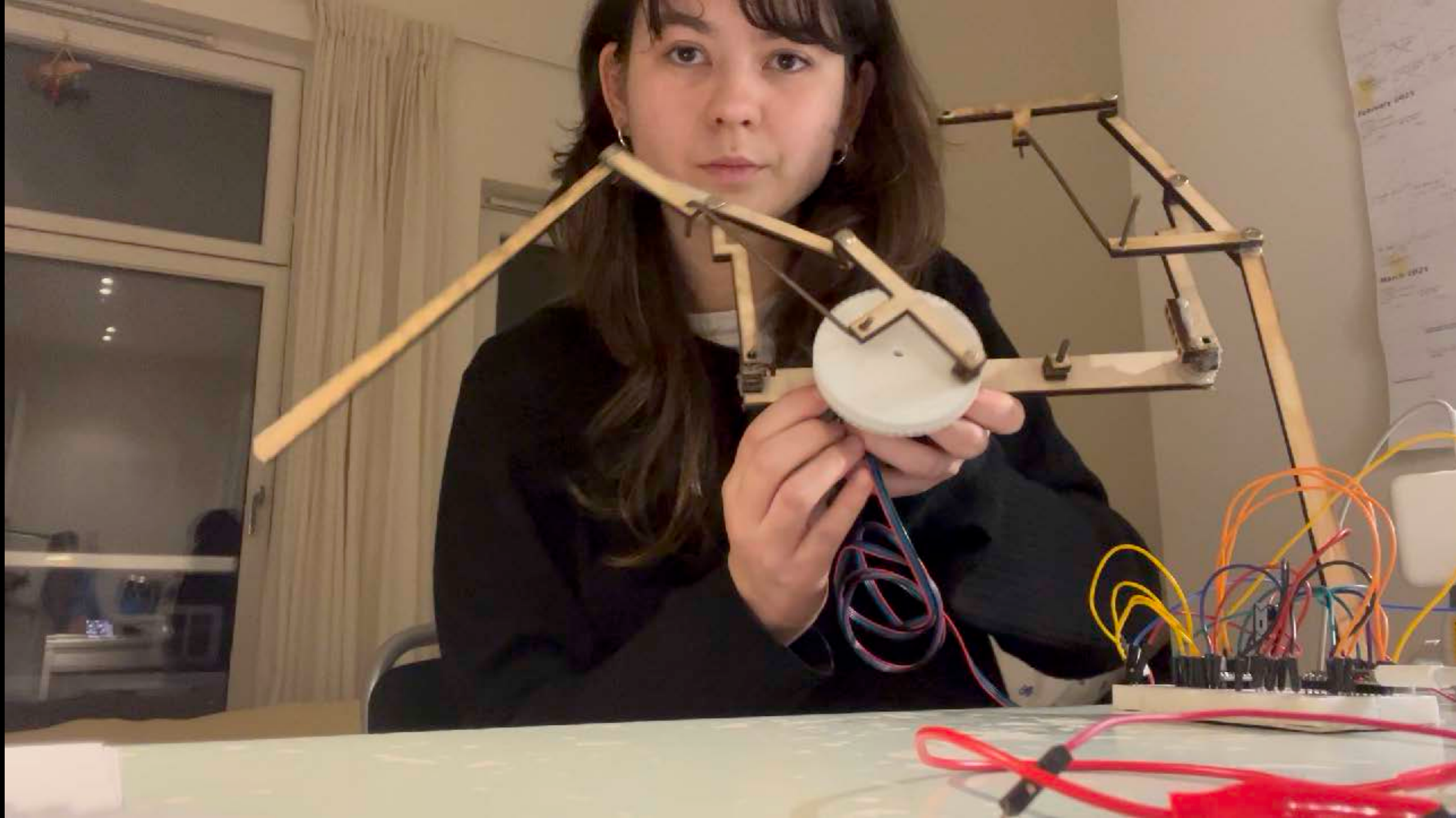
electronic interaction

amphitrite.



electronic interaction

philomel electronic interaction



oops...

moving forward.....

phase three:

material upgrades and
aesthetics

philomel.



Translucent
Alginate
bioplastic
↙



material upgrades and aesthetics

amphitrite.

Laser cut →

Holographic
film



Embedded
fabric →

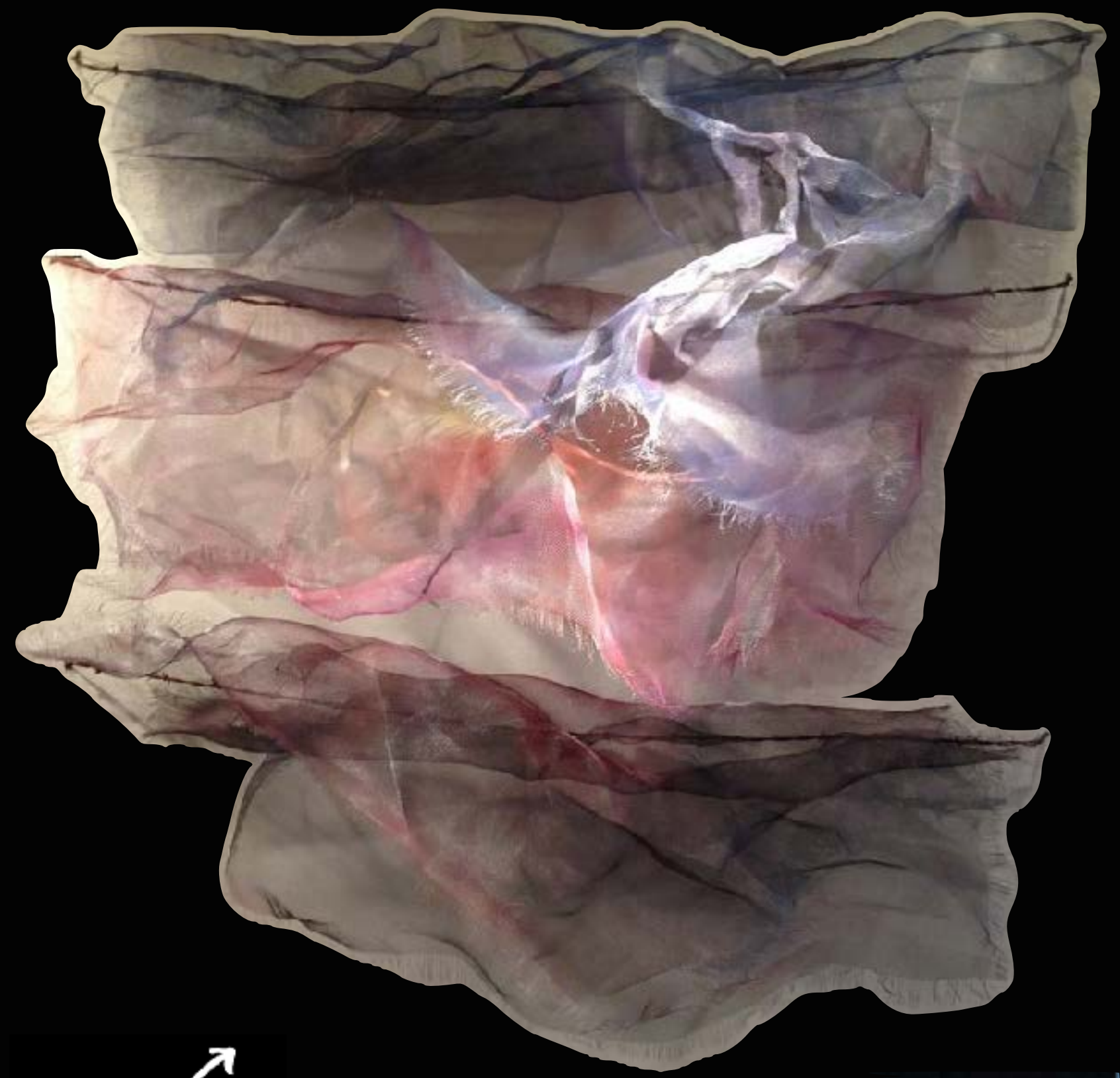


Gelatine based
Bioplastic -

material upgrades and aesthetics

daphne.

Heat shaped



Naturally Dyed



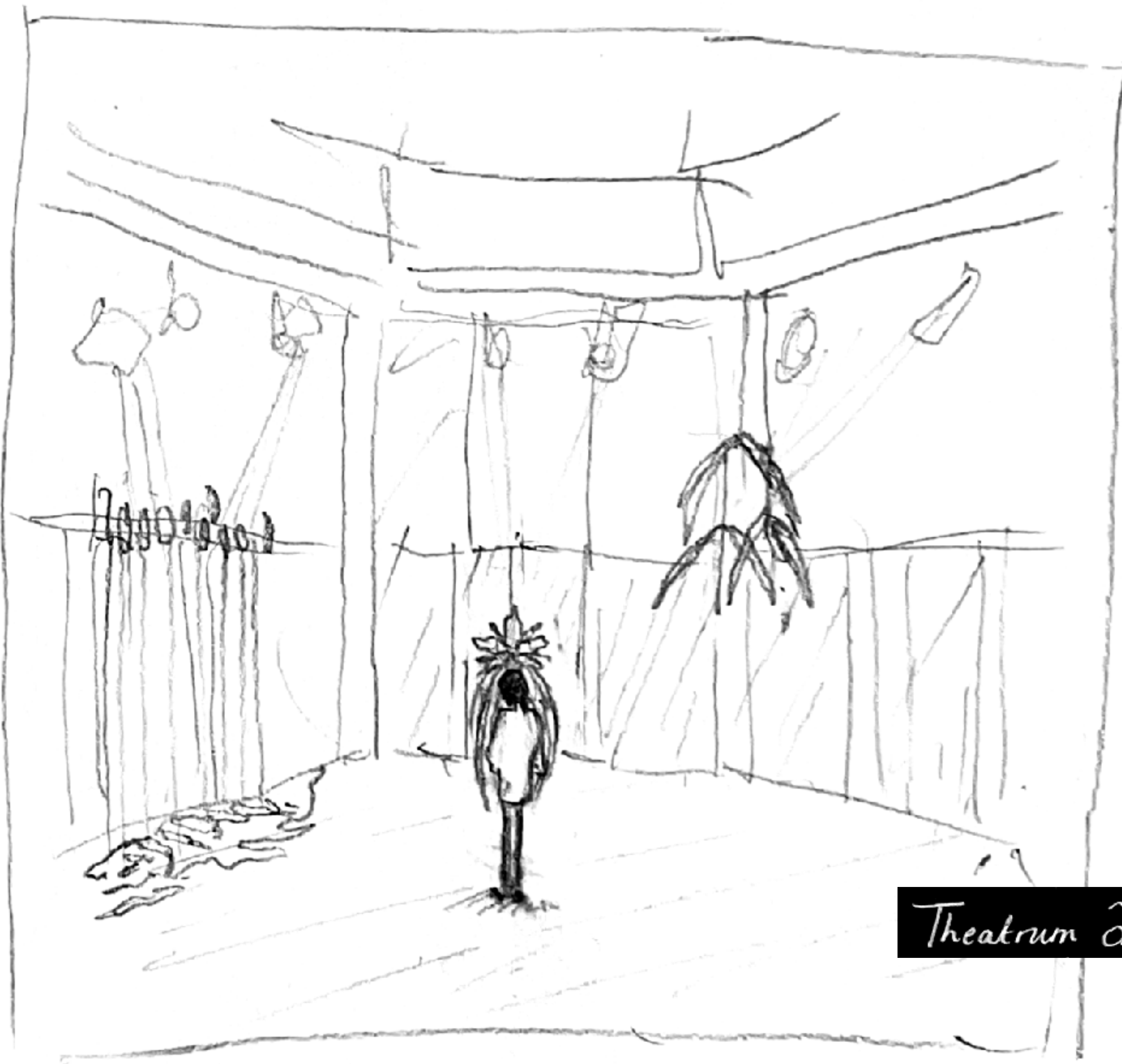
Pleated

material upgrades and aesthetics

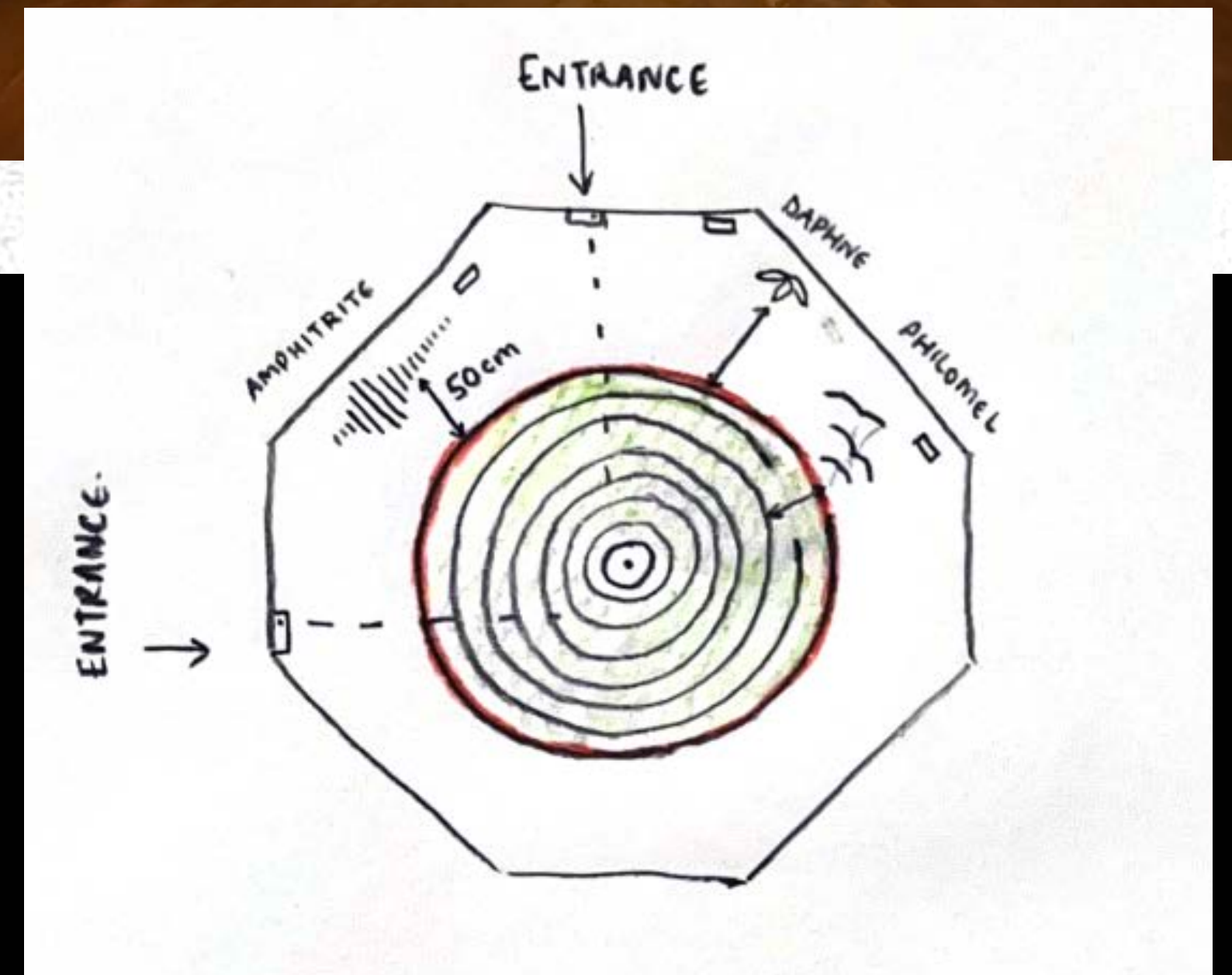
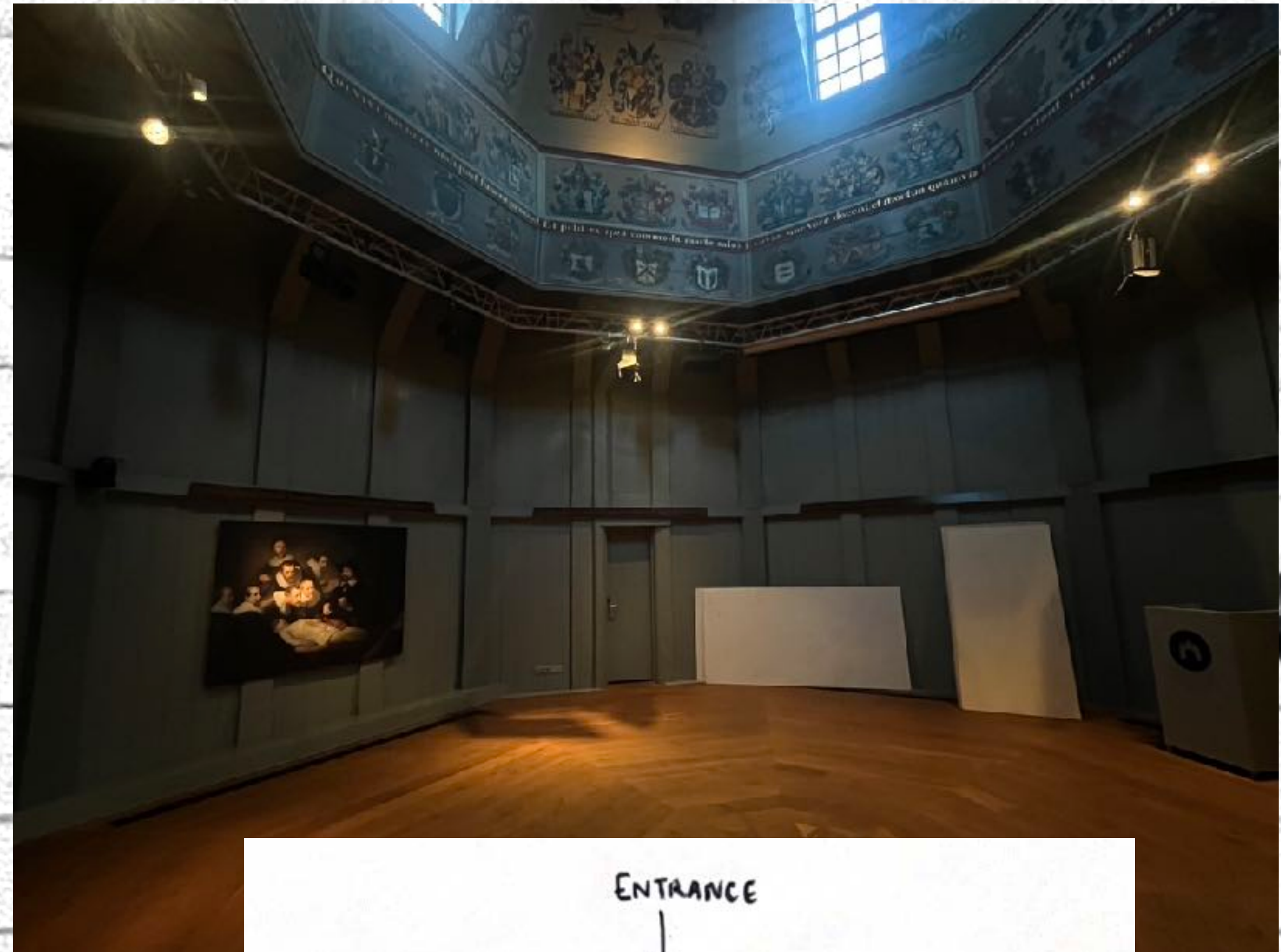
phase four :

interaction
narrative

interaction and narrative



Theatrum Anatomicum





keeping time

