

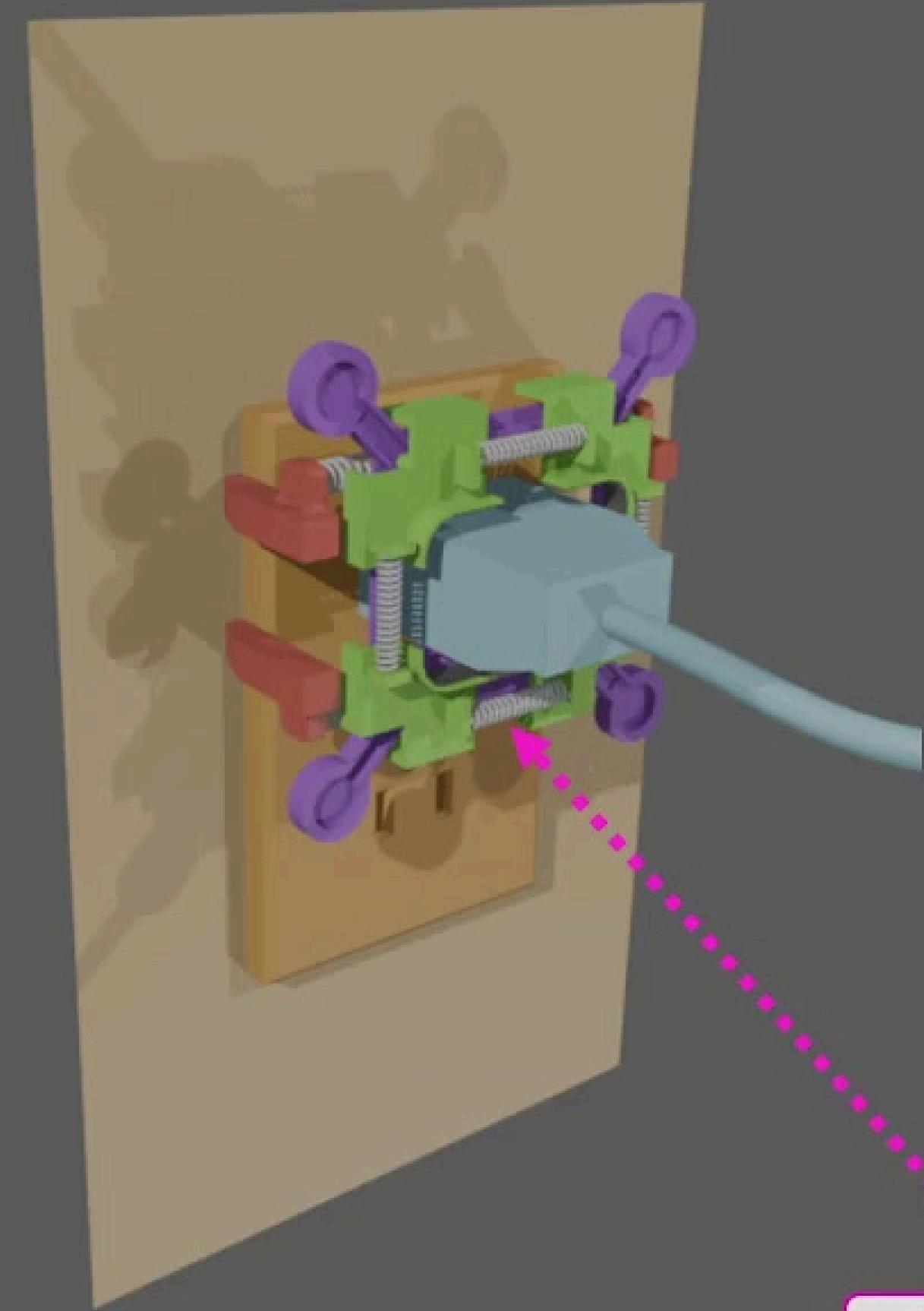
Nanotape

NanoTape

Candidate Design 1

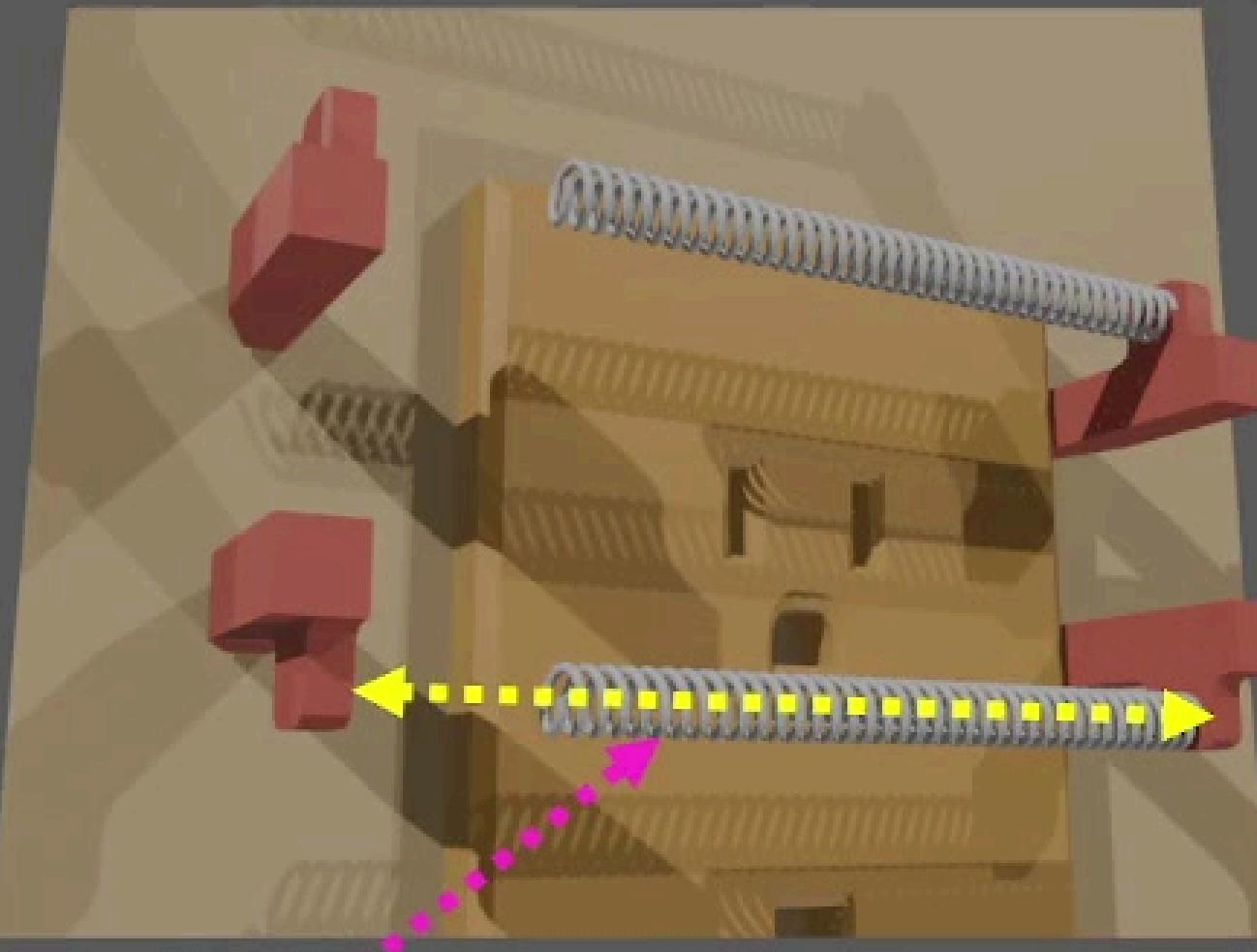
g3

1



Spring Clamps

STEP 1

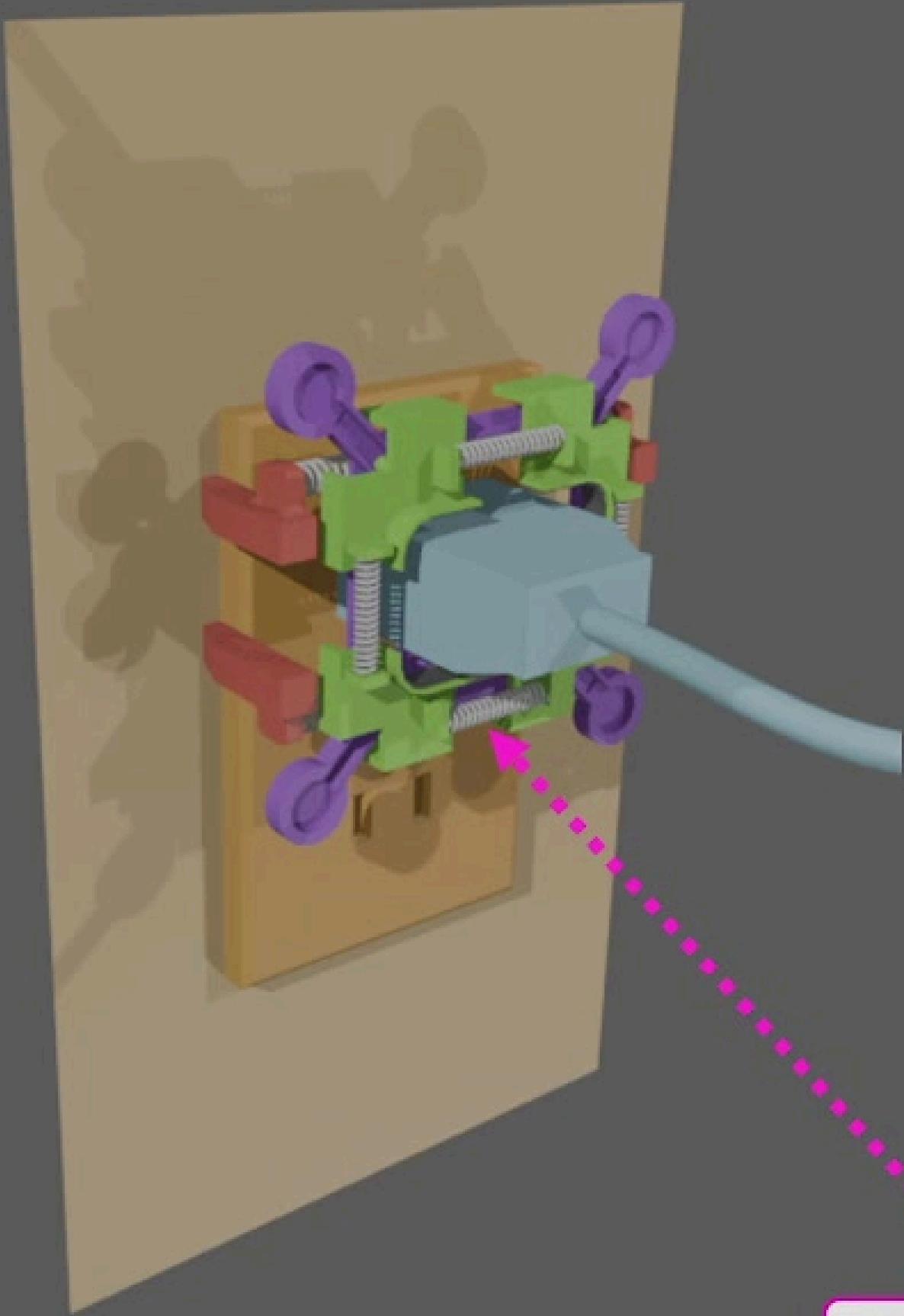


Tensioner Springs

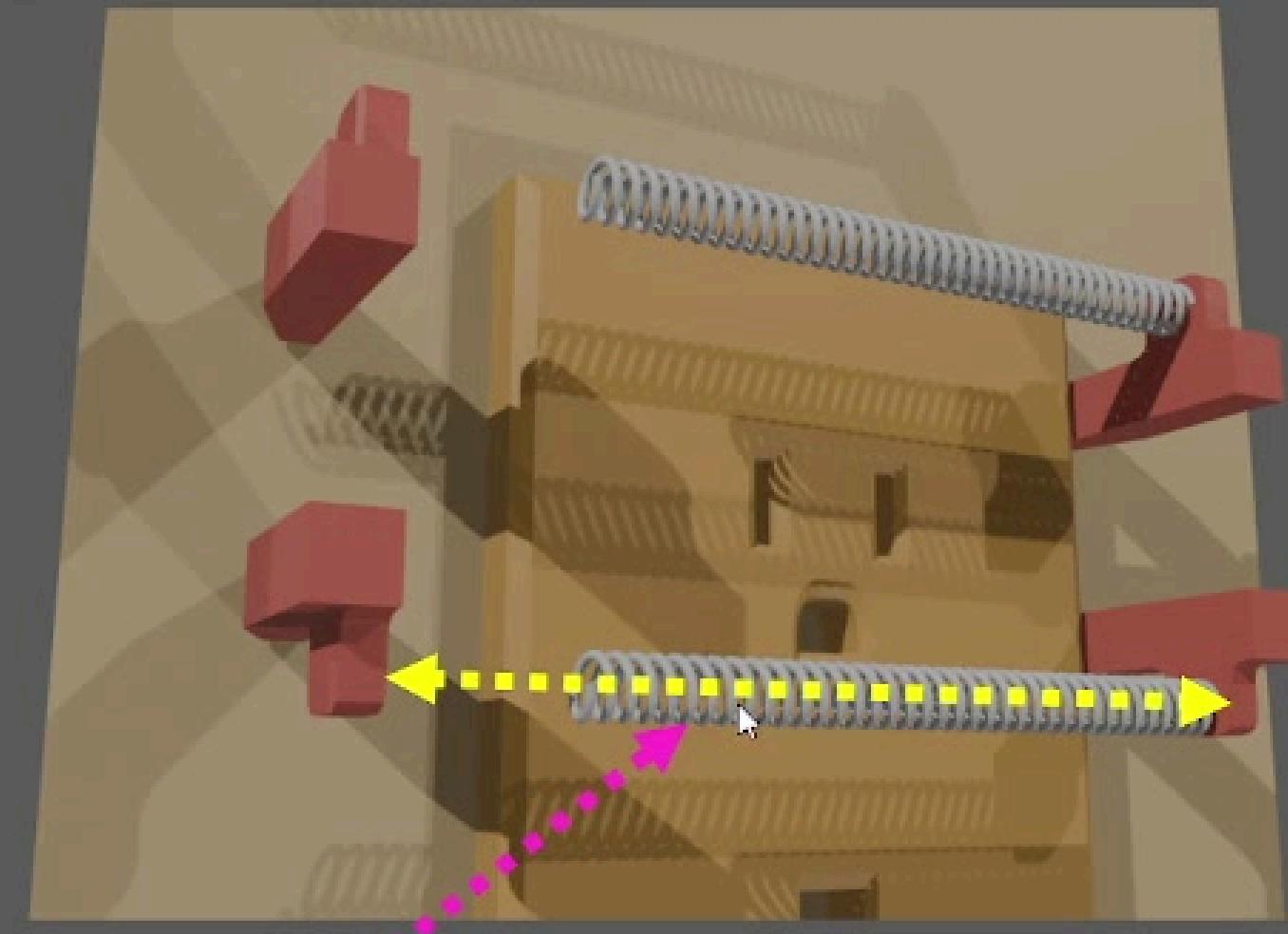
a4
2

Candidate Design 2

Spring Clamps



STEP 1

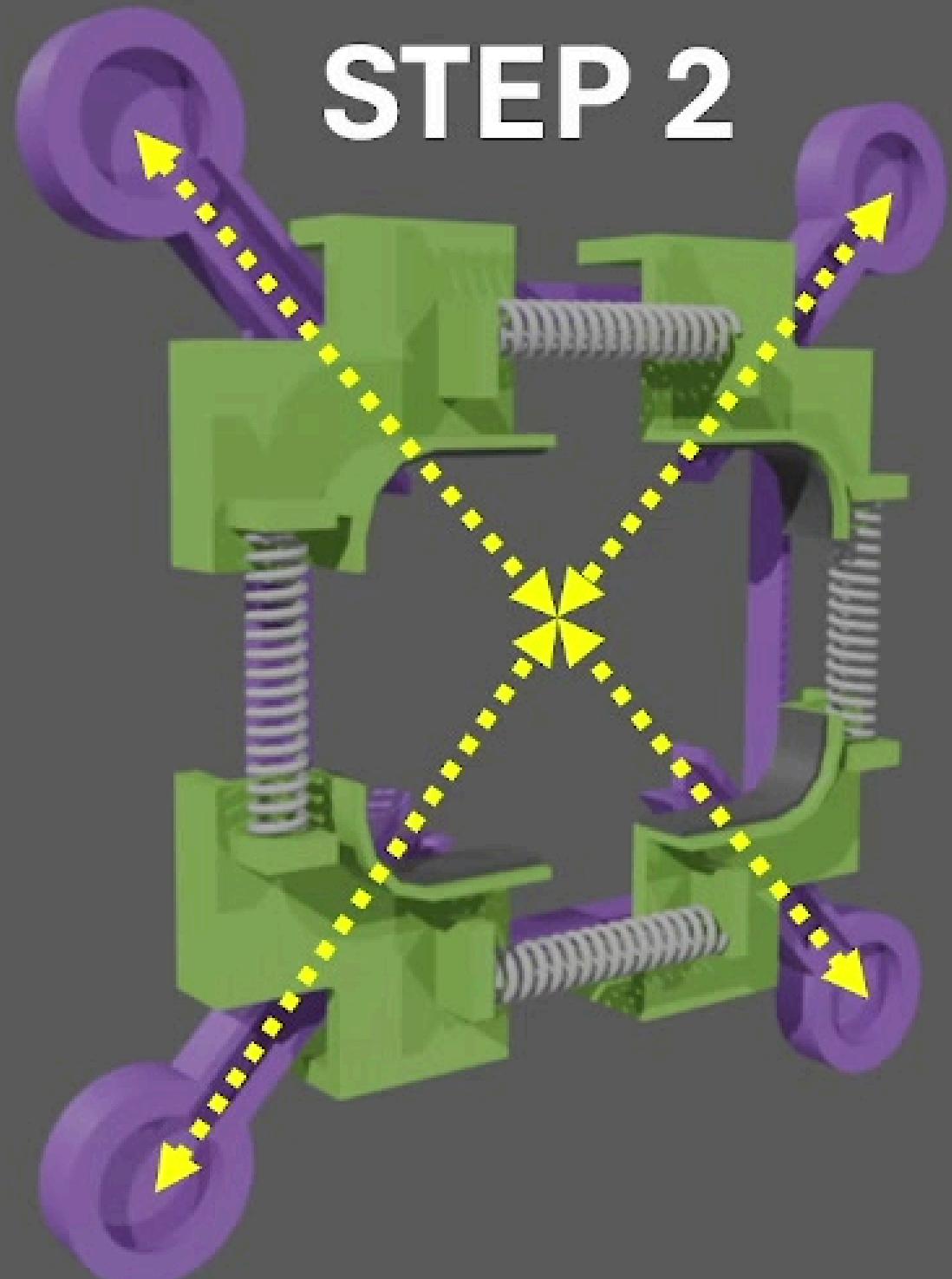


Tensioner Springs

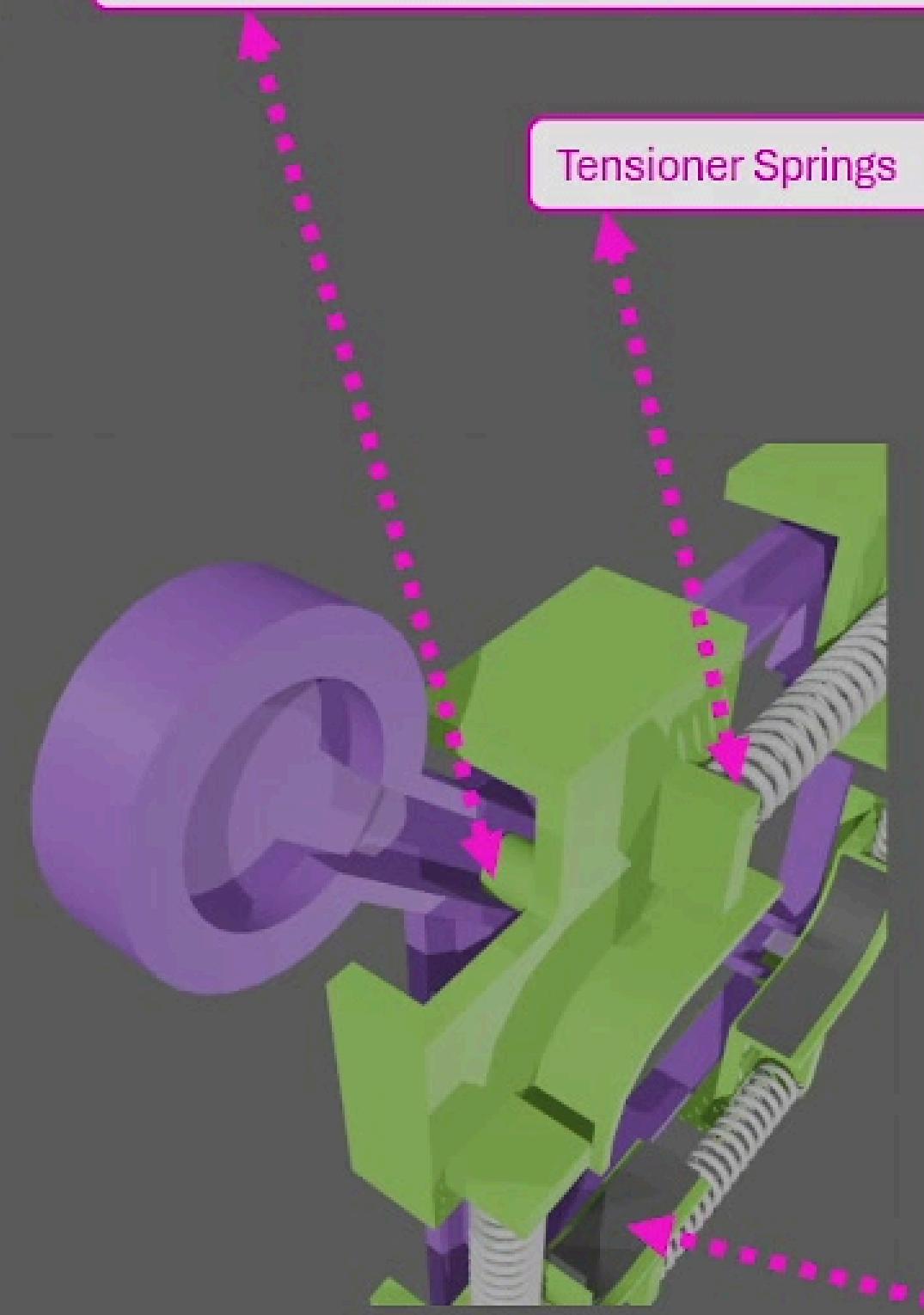
Candidate Design 2

a4
2

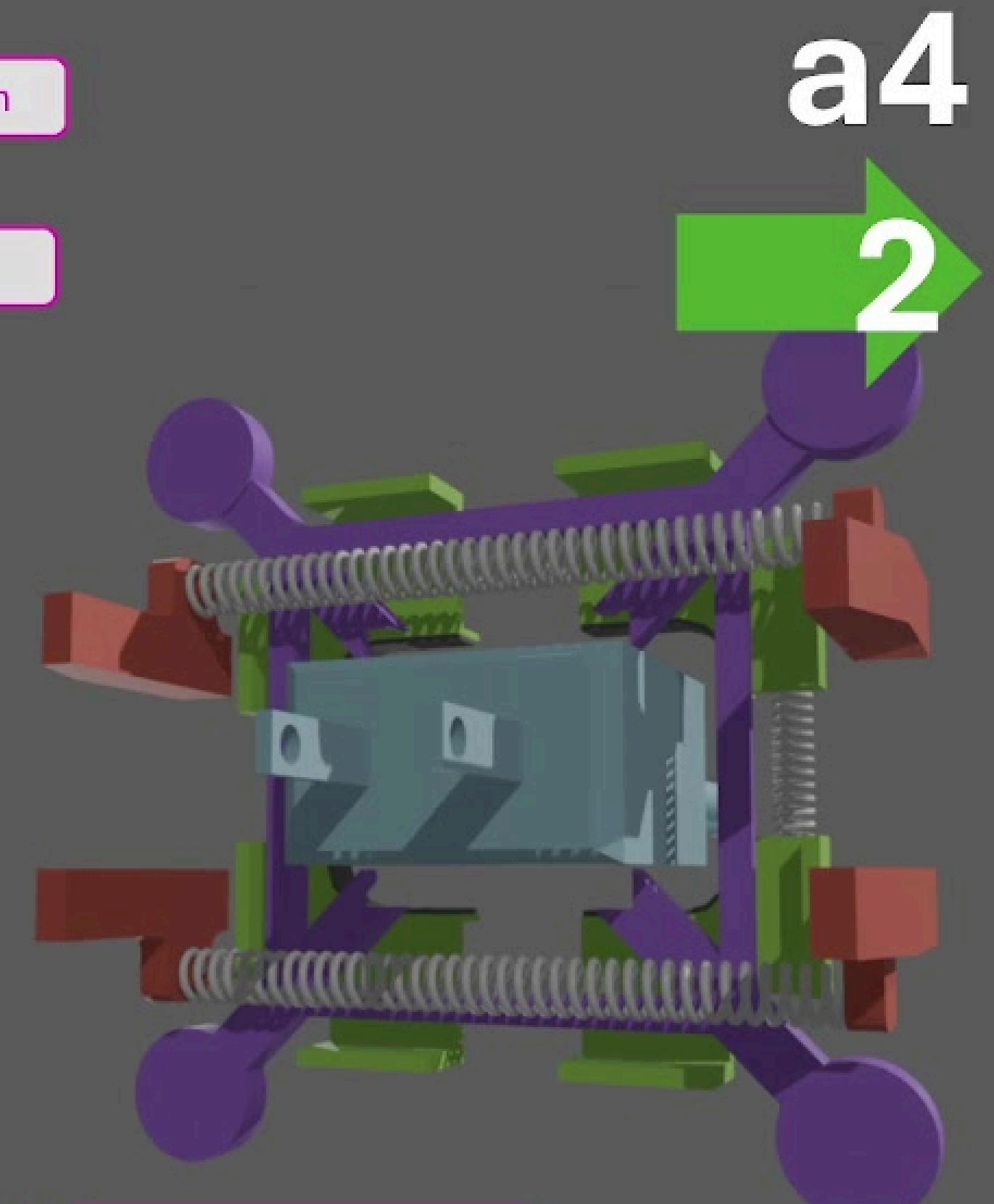
STEP 2



Tracks to guide the capture pieces in green



Tensioner Springs



Rubber anti-slip covering

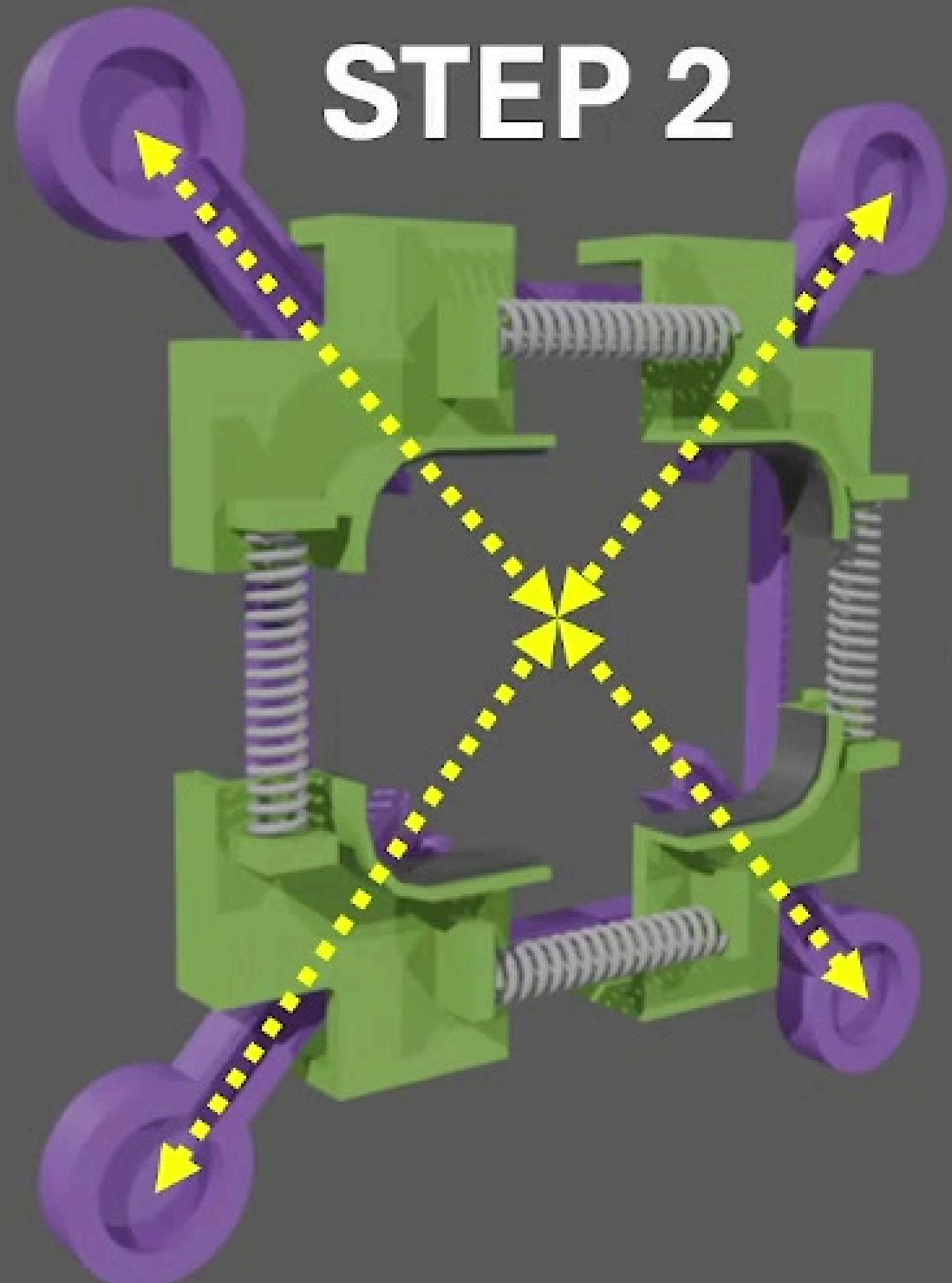
Spring Clamps (Continued)

Candidate Design 2

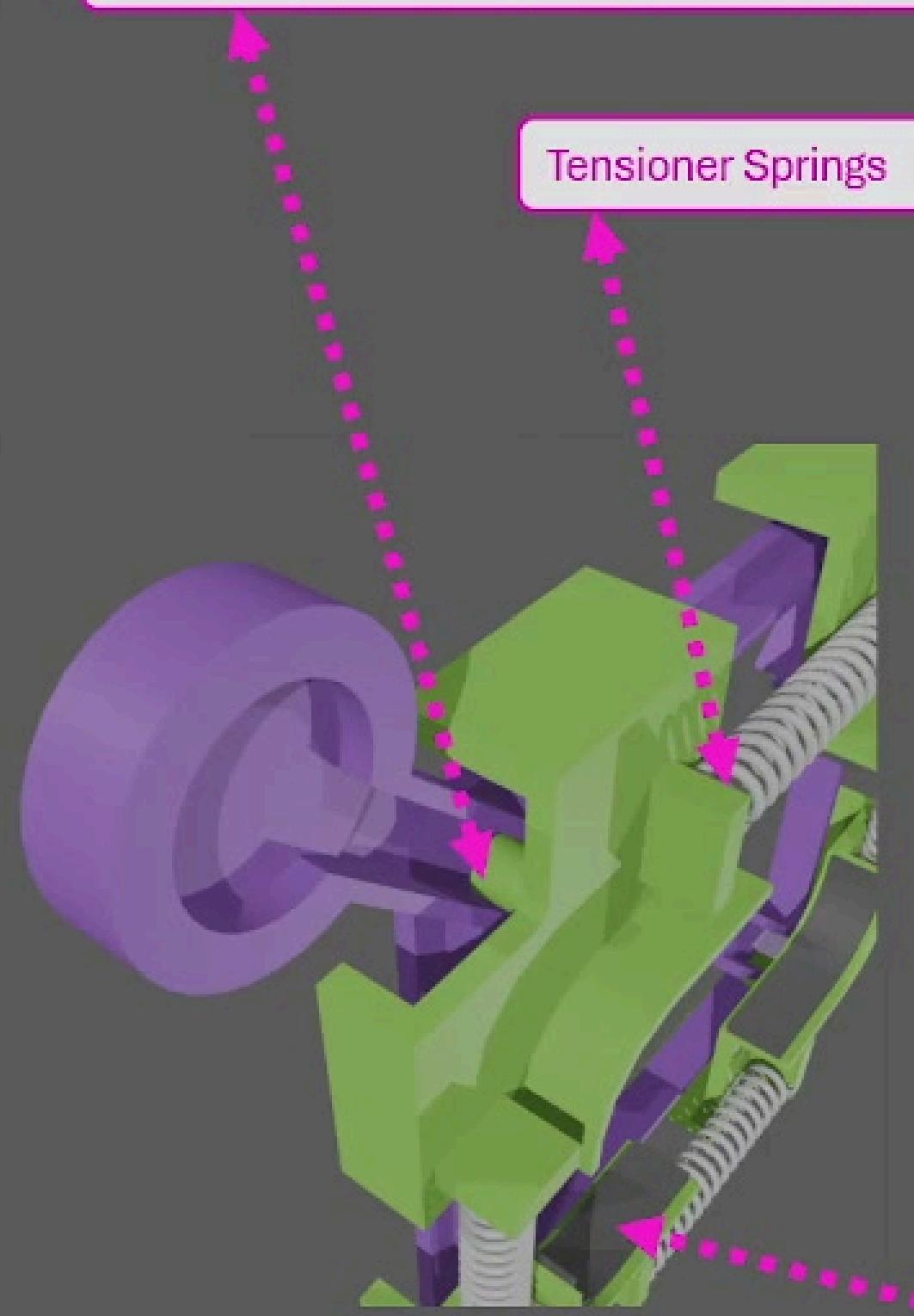
a4

2

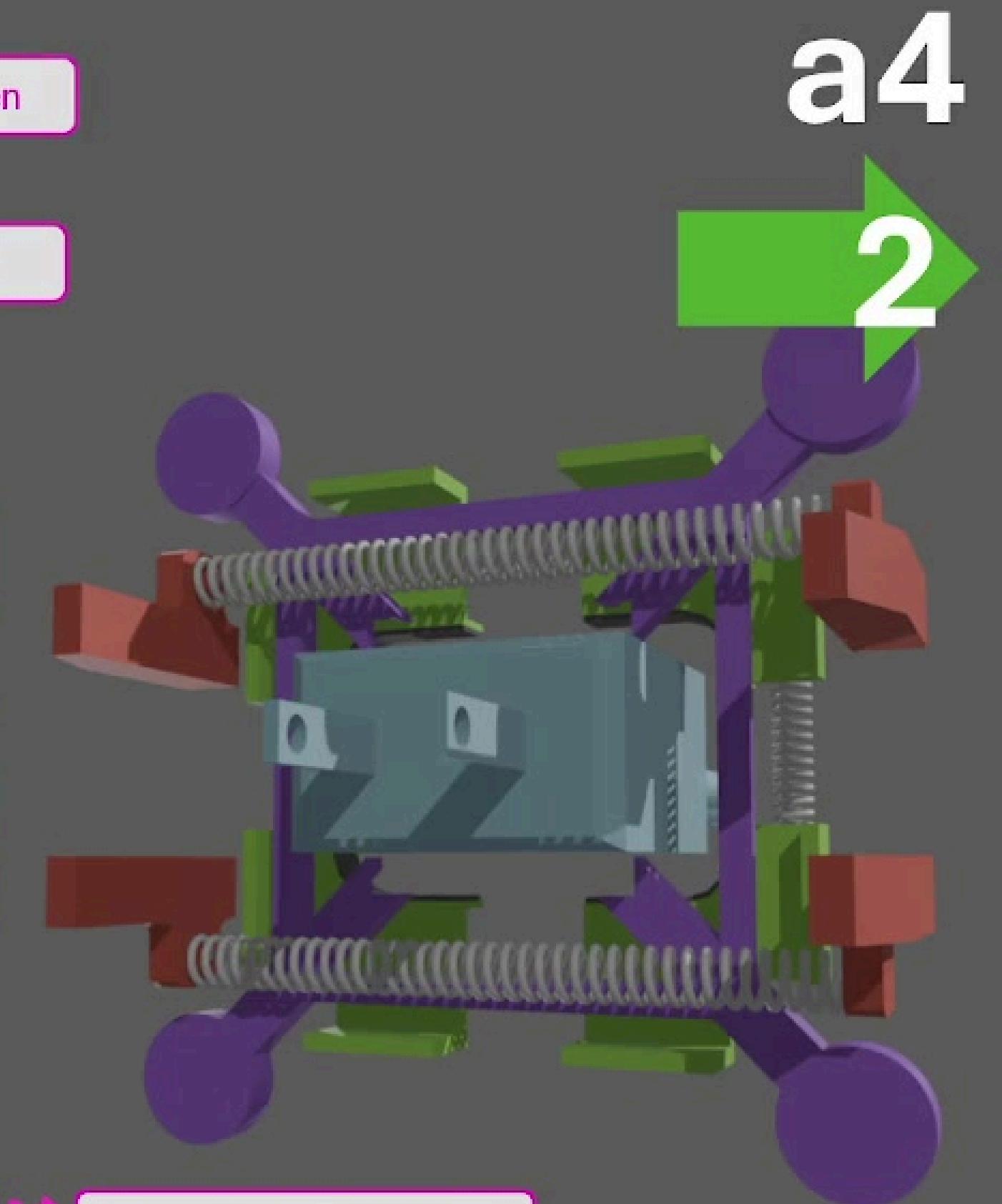
STEP 2



Tracks to guide the capture pieces in green



Tensioner Springs



Rubber anti-slip covering

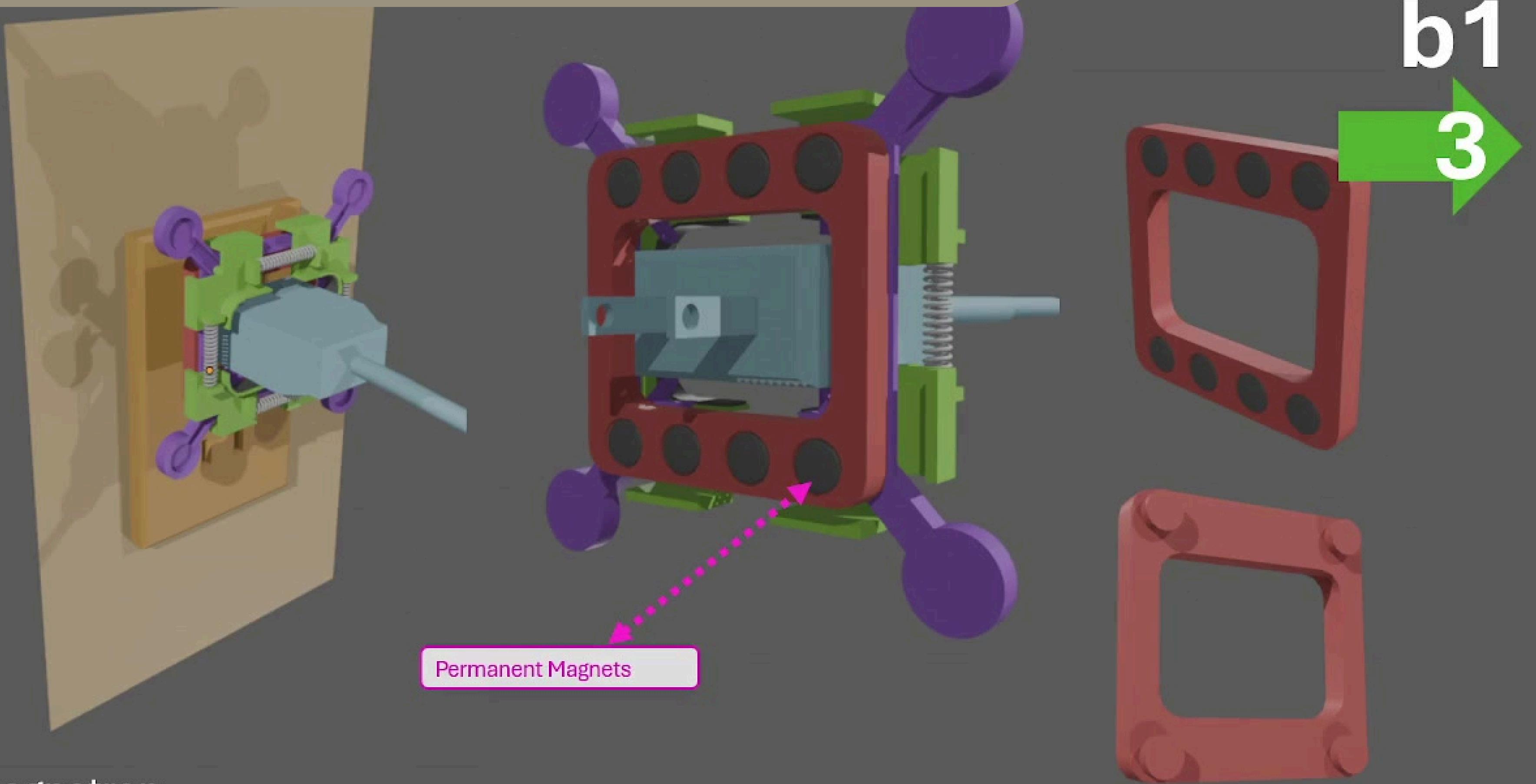
Spring Clamps (Continued)

Candidate Design 2

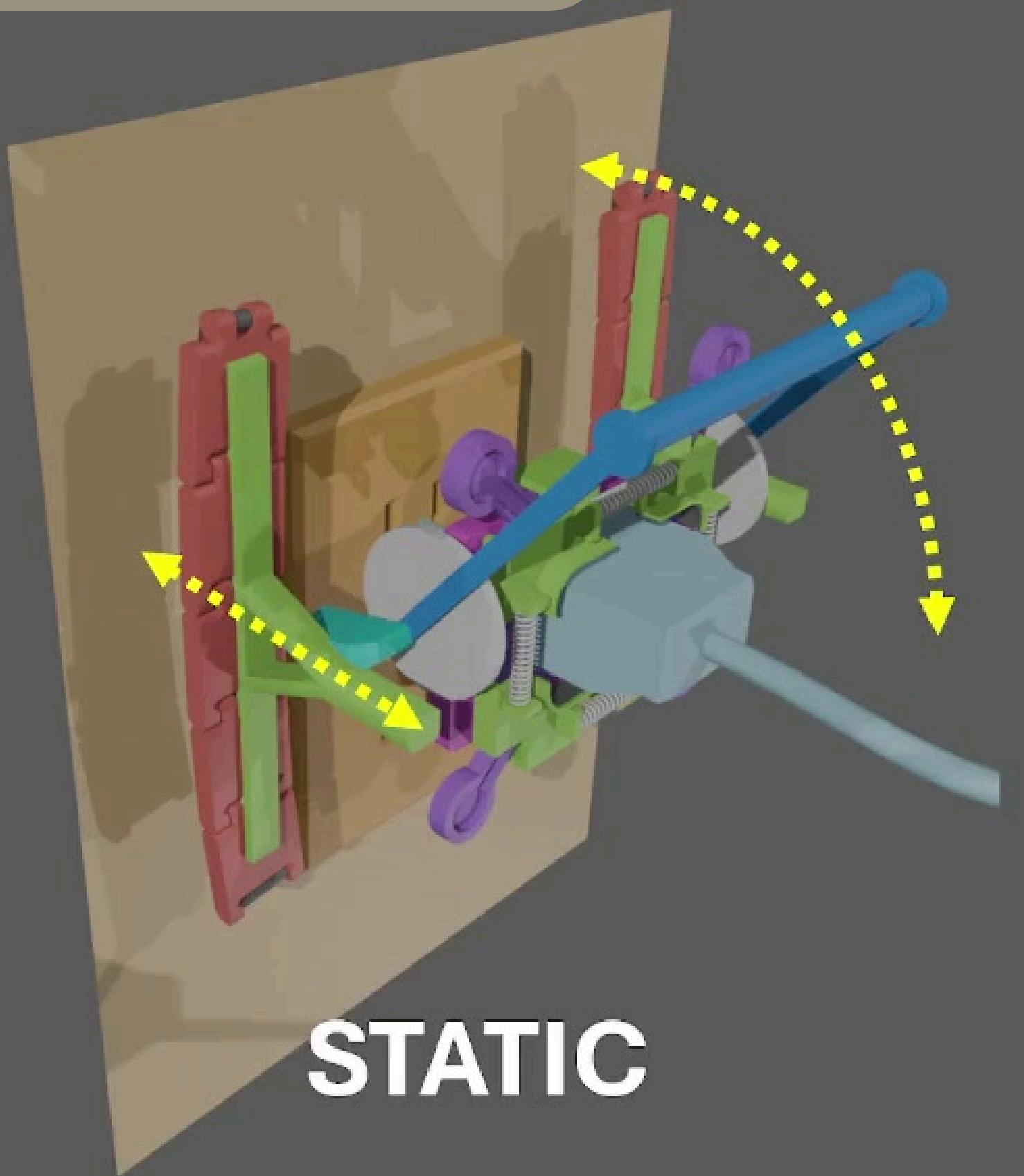
a4

2

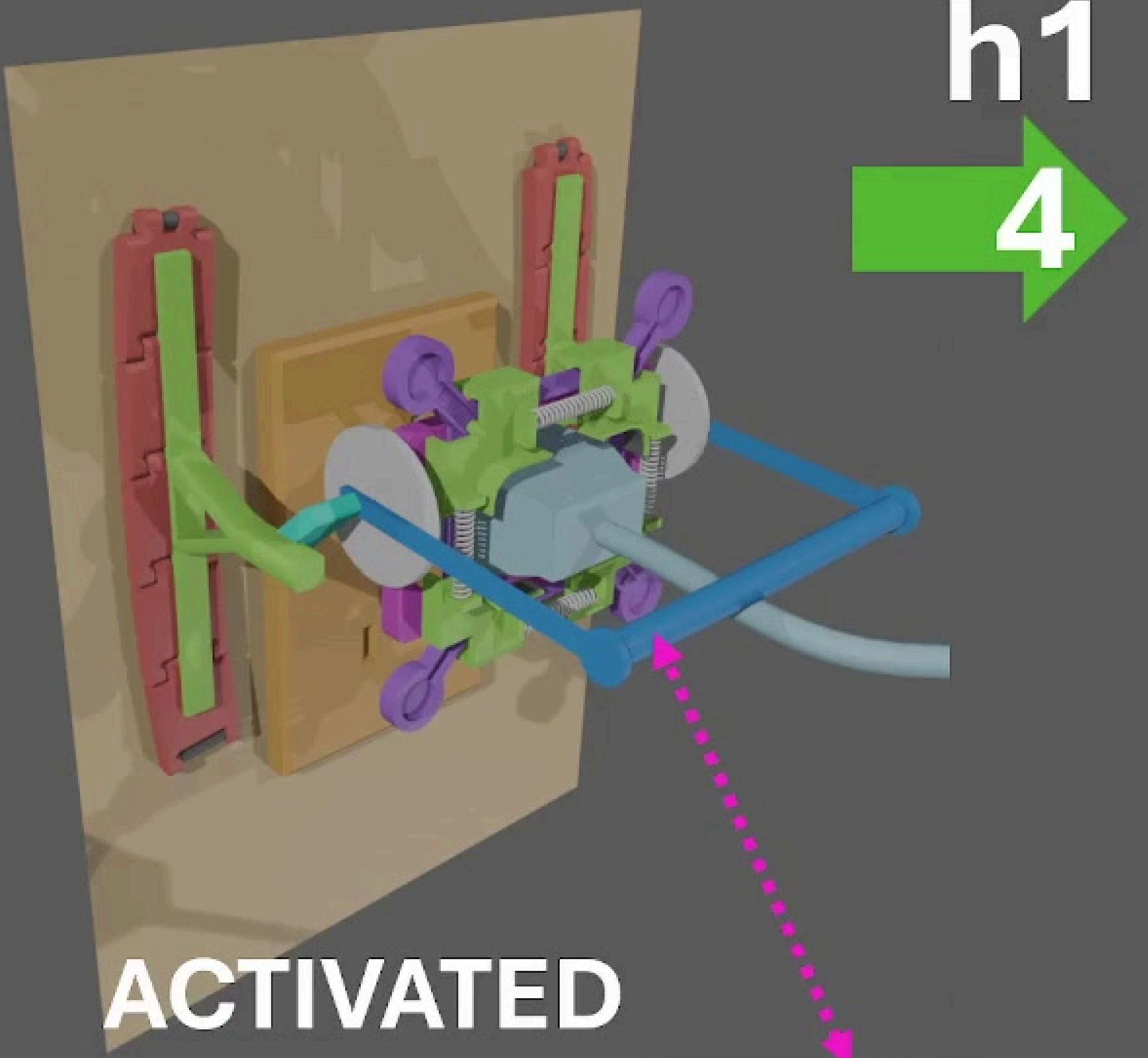
Candidate Design 3 (Recommended Design)



Candidate Design 4



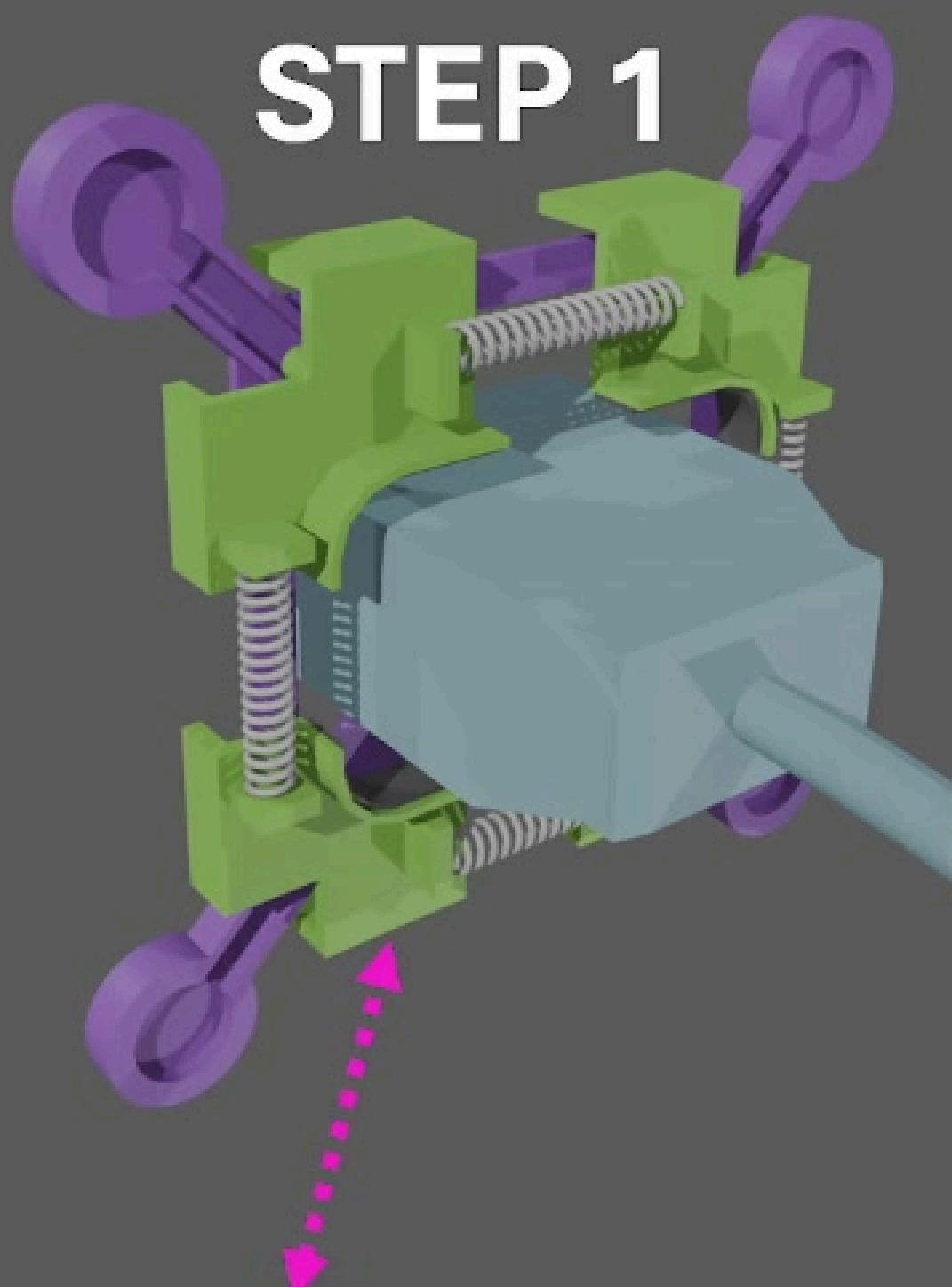
Octopi Suction



Handle Bar

h_1
4

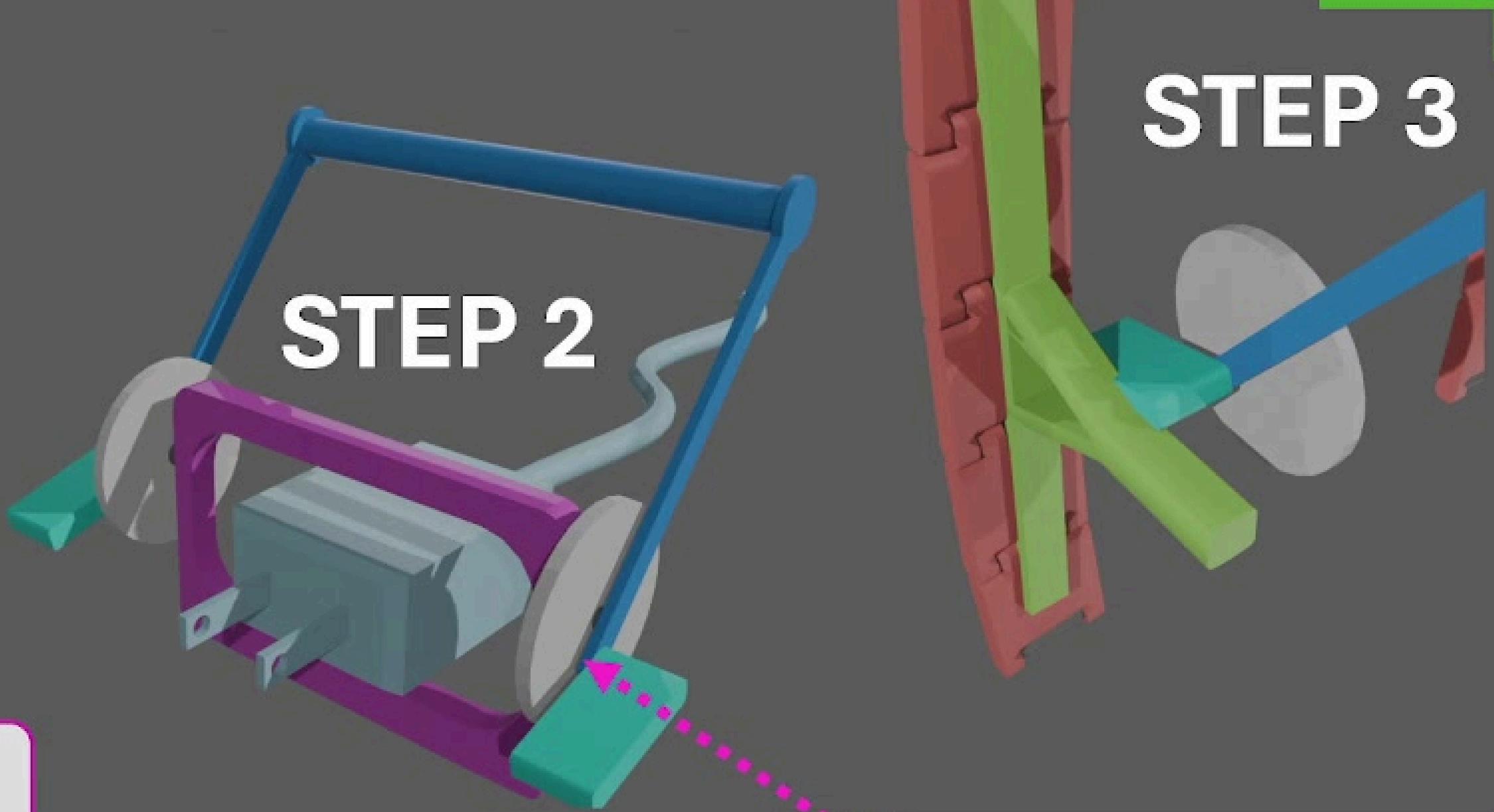
Candidate Design 4



Improved Design to hold the plug as taken from Spring Loaded Clamp Design (a4)

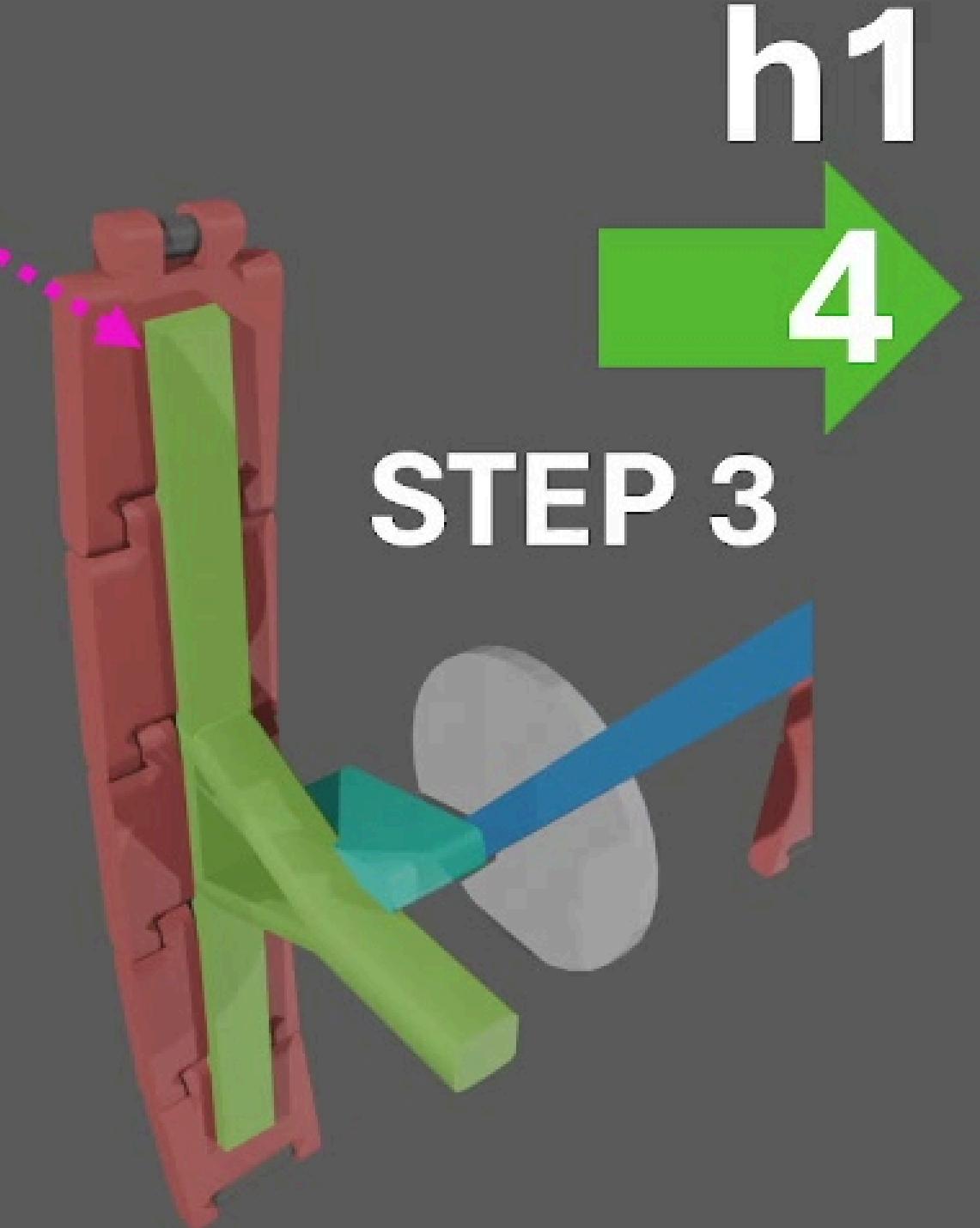
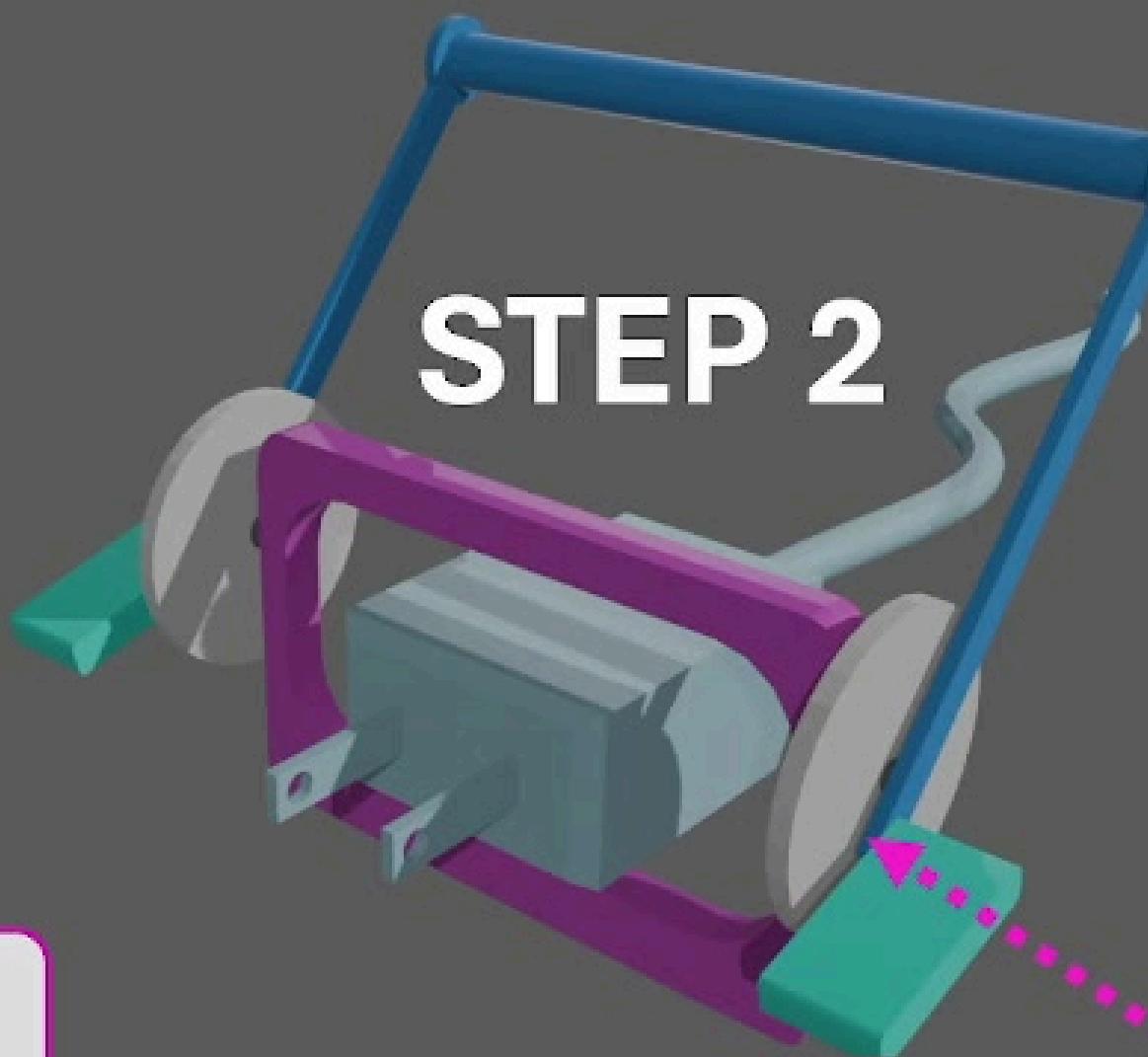
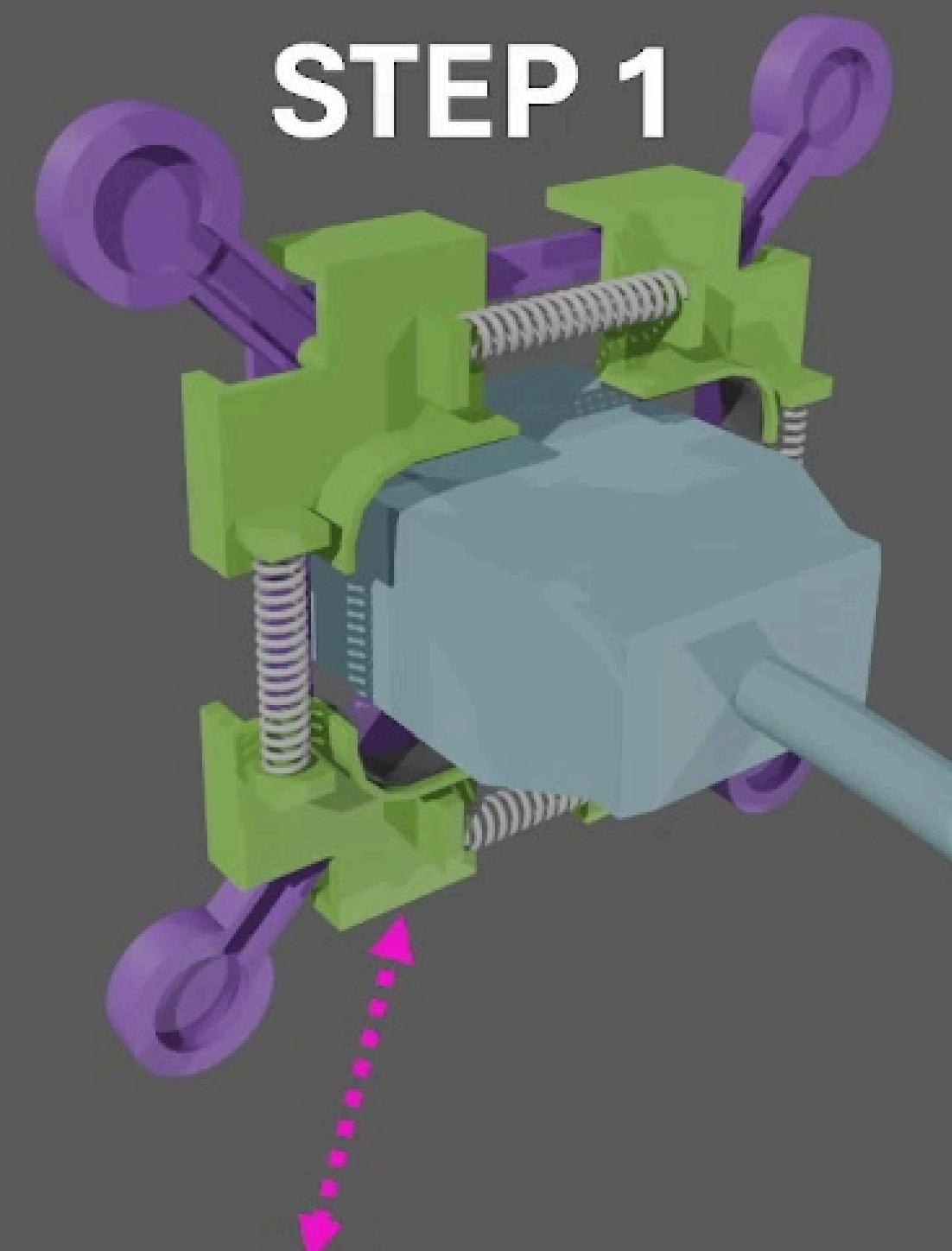
Octopi Suction (continued)

Surface Conforming “arm”, green
section also conforms with red (not
shown)



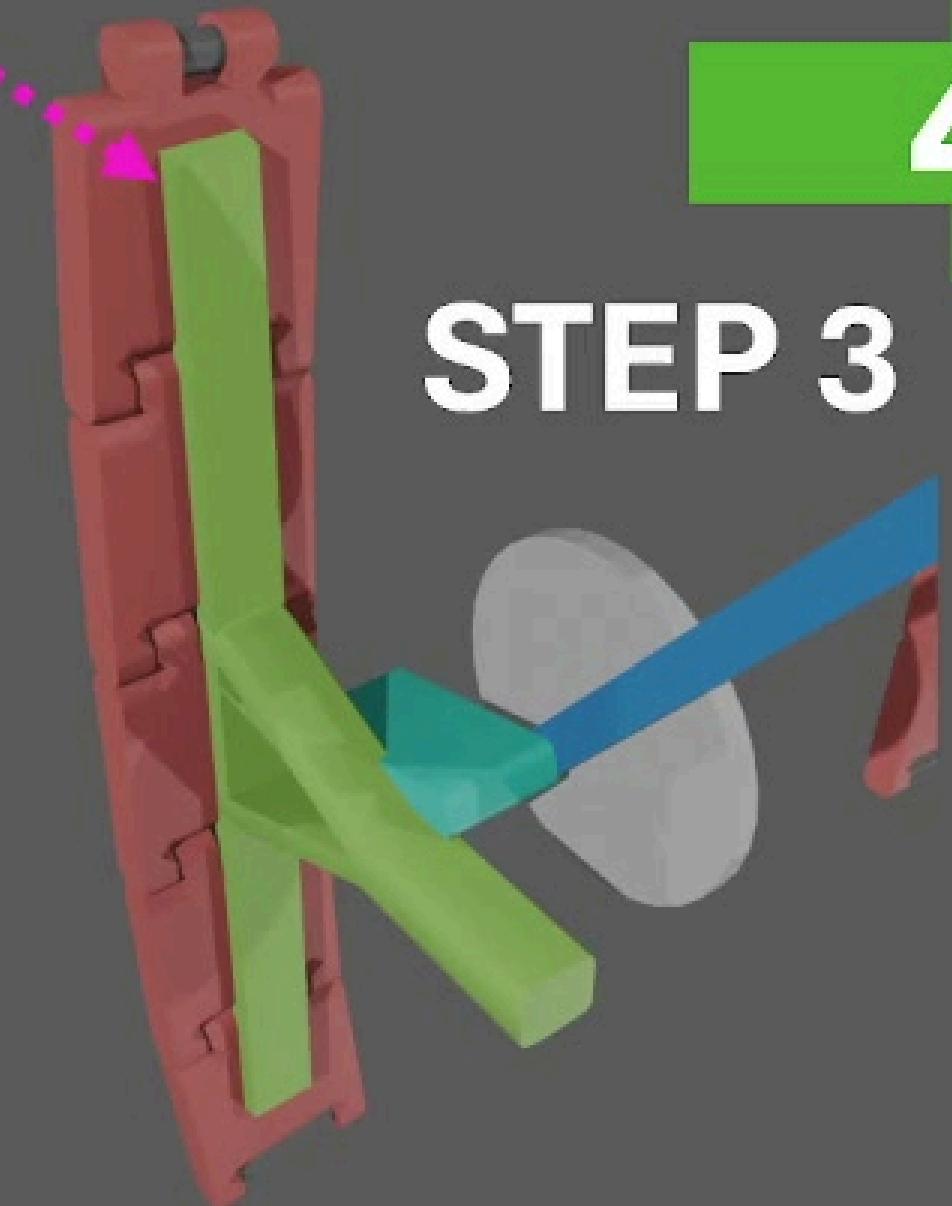
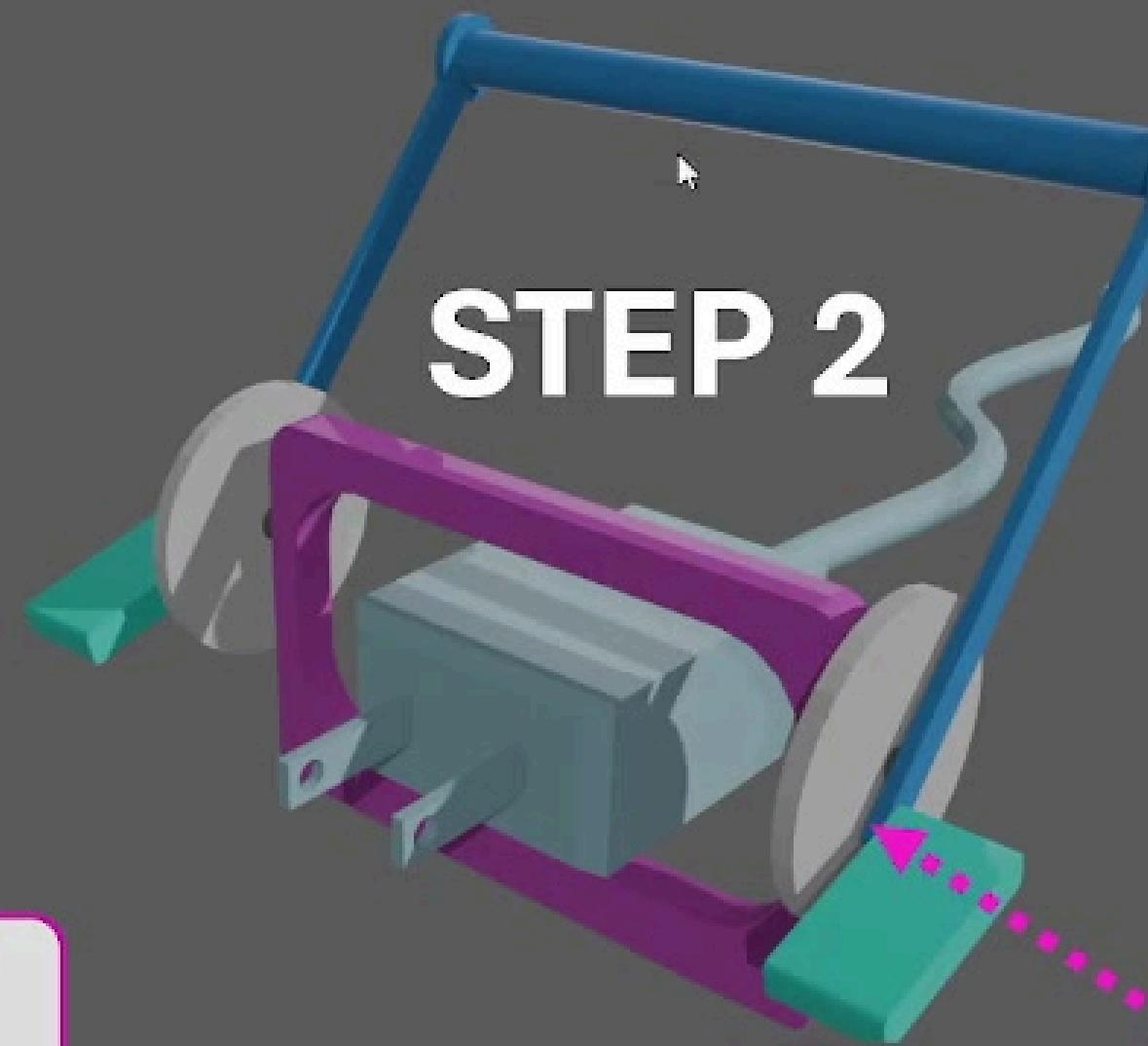
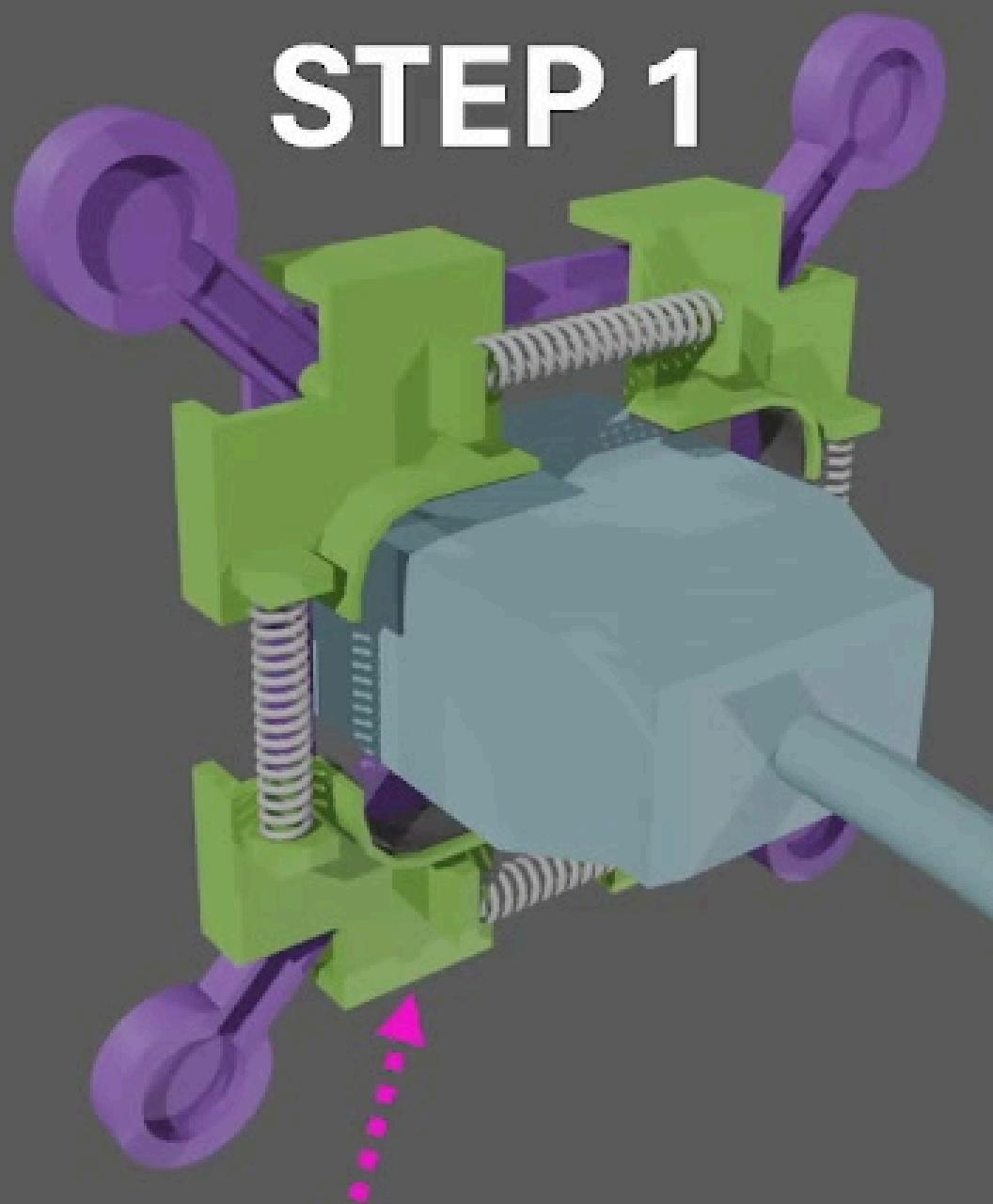
Rotational to Oscillation Mechanism (not shown)

Candidate Design 4



Octopi Suction (continued)

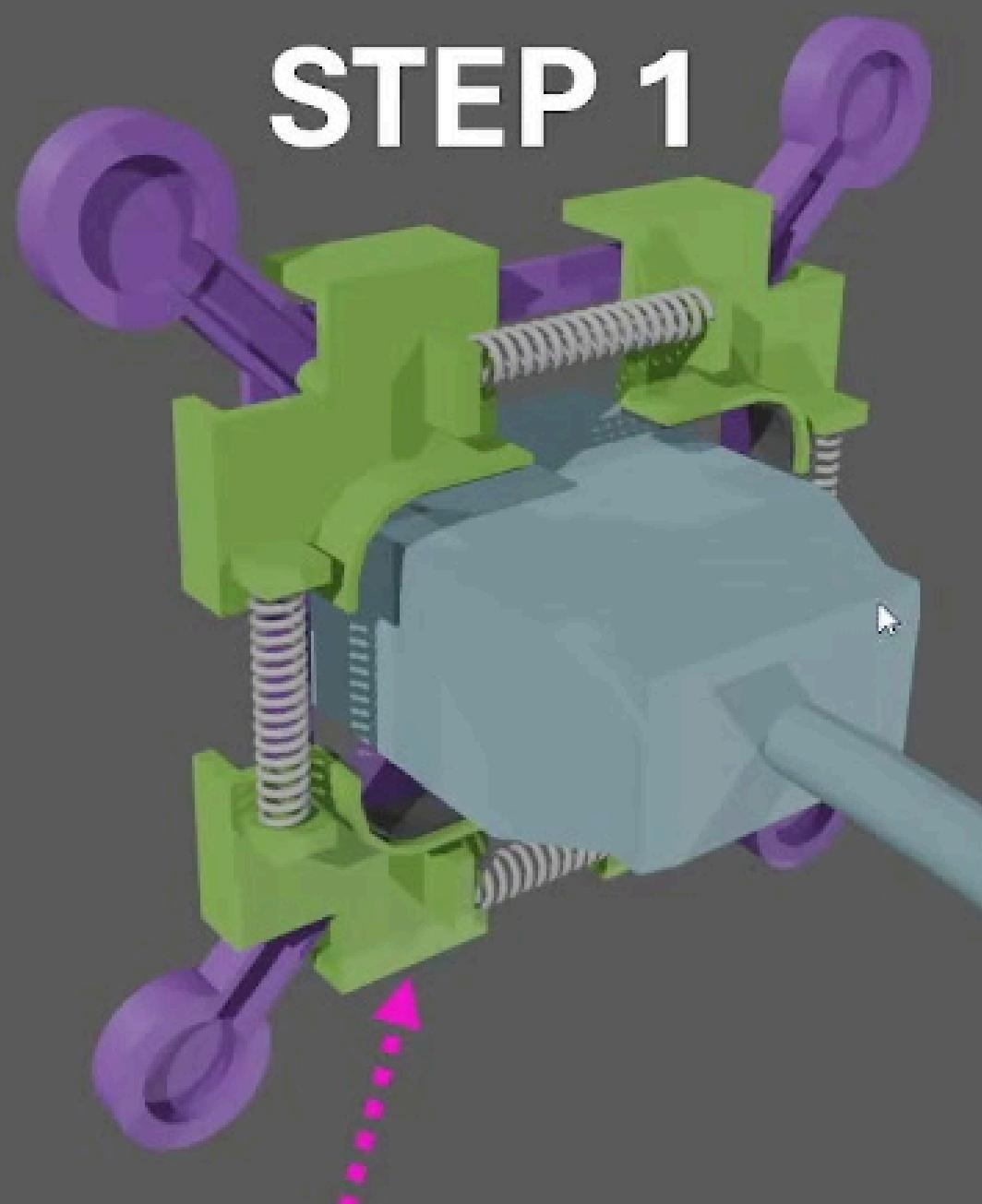
Candidate Design 4



Octopi Suction (continued)

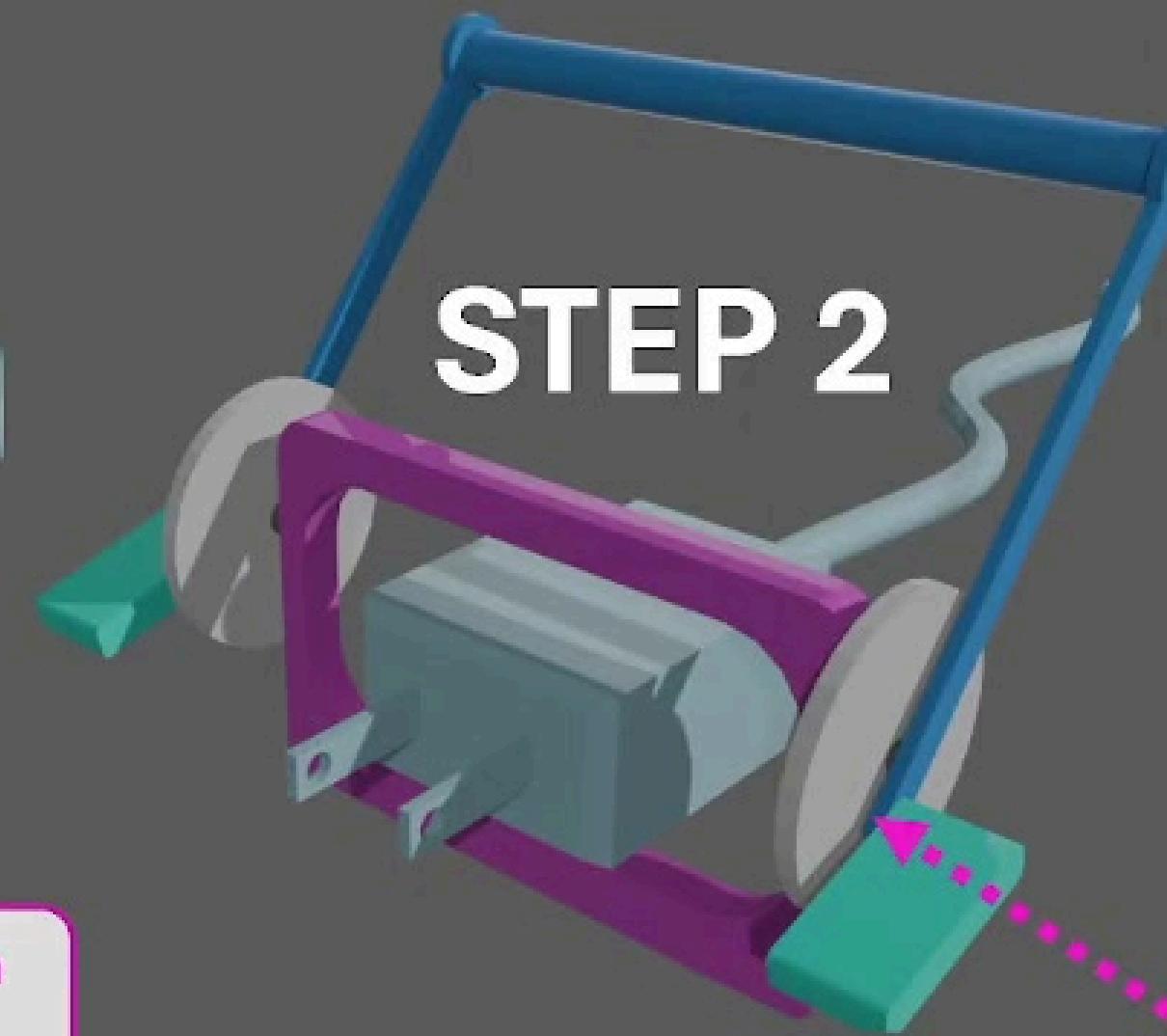
Candidate Design 4

STEP 1



Surface Conforming "arm", green section also conforms with red (not shown)

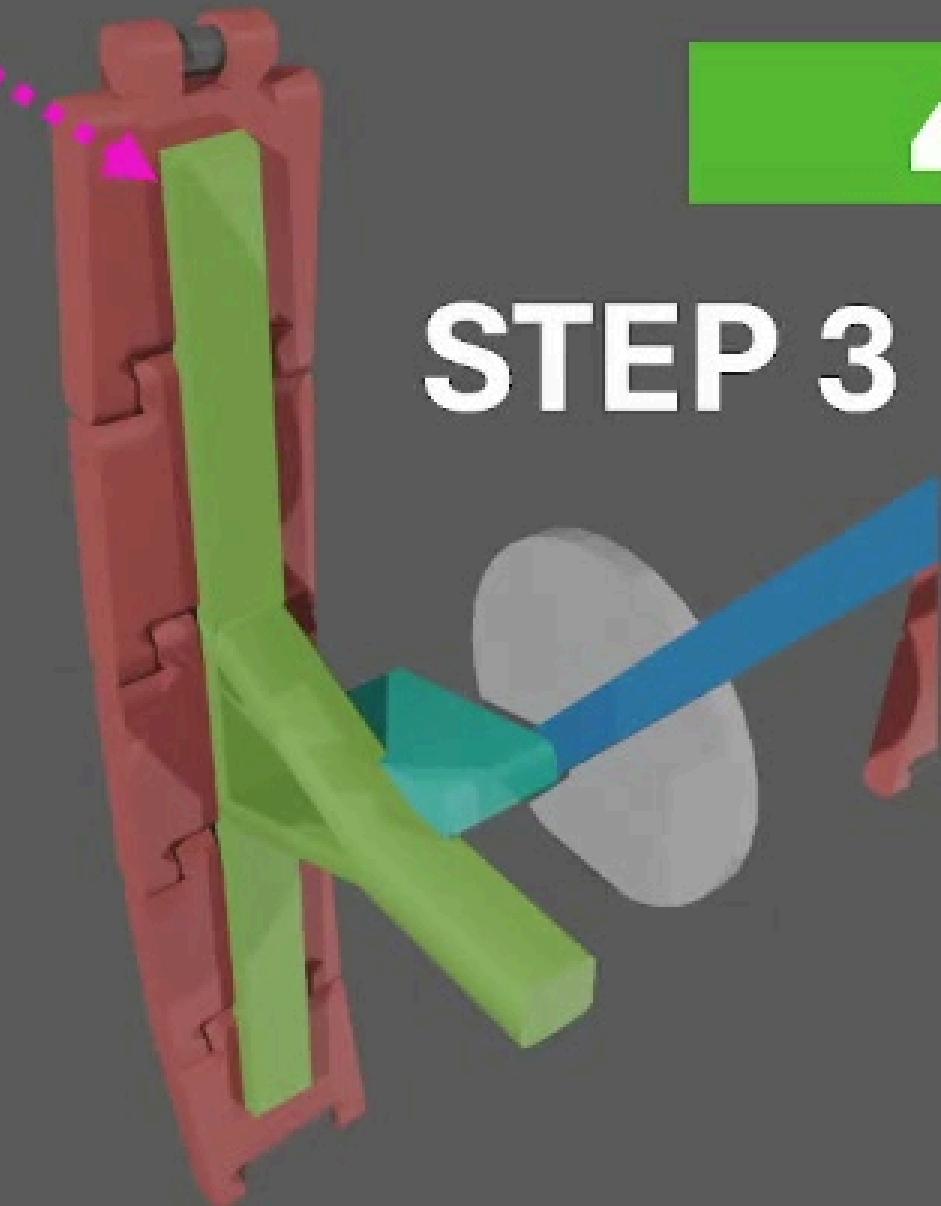
STEP 2



Improved Design to hold the plug as taken from Spring Loaded Clamp Design (a4)

Octopi Suction (continued)

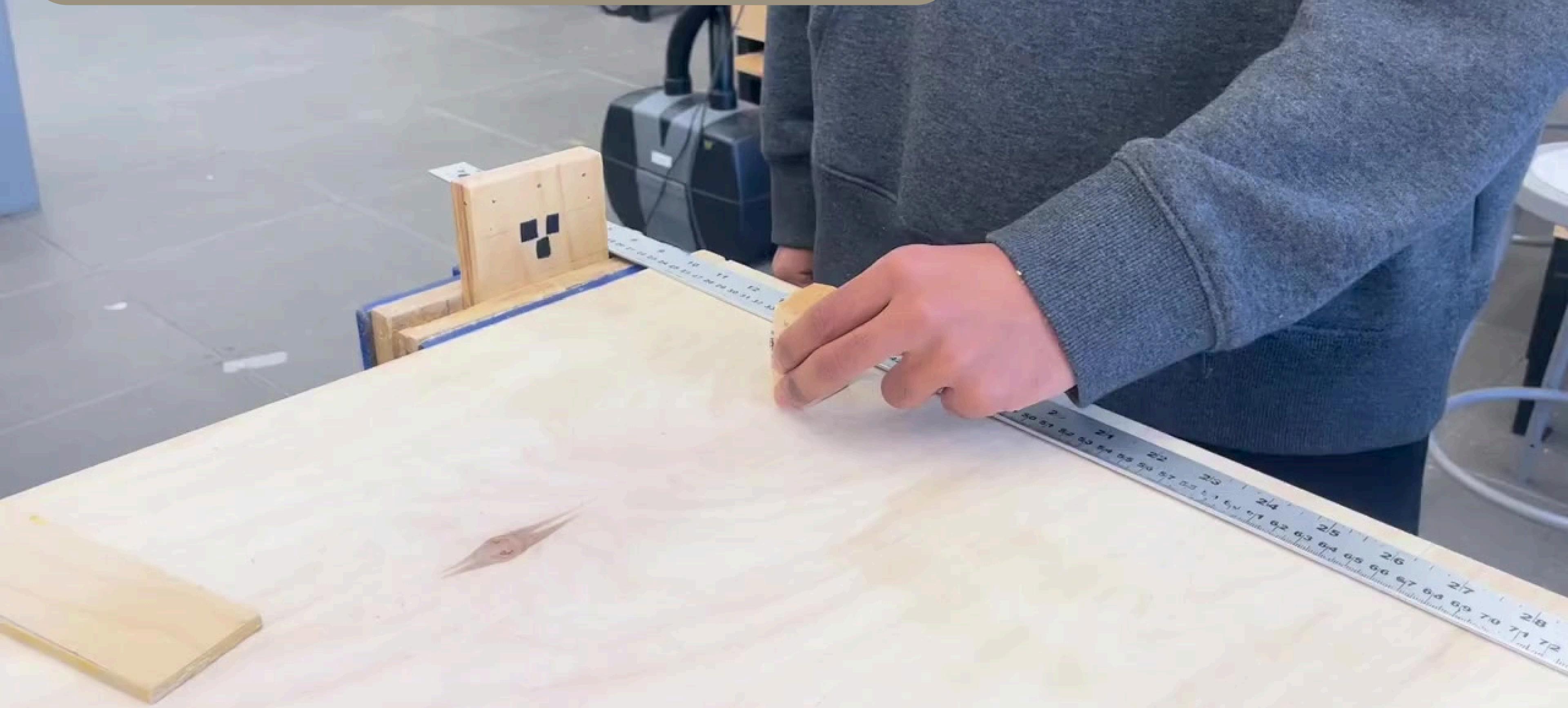
STEP 3



Rotational to Oscillation Mechanism (not shown)

h_1
4

Deployment Time Test Procedure with Nanotape Analogue



Deployment Time Test Procedure with Magnet Analogue



Wall Socket Compatibility Test

Procedure with Octopi Suction Analogue



Engagement Force Test Procedure with Nanotape Analogue



Engagement Force Test Procedure with Magnet Analogue

