Scissor lift mechanism

I have chosen to design this scissor lift mechanism for my final project in 3D Modeling and Printing because I found it the most interesting from the list of proposed mechanisms.

The main components are the two plates that are connected to the 4 arms and two separators through which a screw passes. When the screw is screwed the separator from the back is screwed to the screw causing the 4 arms to approach in the center and lift the plates simultaneously.

To power the mechanism you can drive the “screw\_cyl” joint from the screw.

To see the the motion of the mechanism play the “power\_mecanism” motion study from the .f3d file.

This project includes 8 .stl files with each component individually and a .f3d with the functional mechanism.

The project was made in Autodesk Fusion 360.

This mechanism is inspired from International3D (https://www.thingiverse.com/thing:925556)

Eu am pornit de la o schita inspirata de la la o postare pe thingiverse a cuiva pe nume International3D. Am folosit maim ult parametic modeling

5 minute pentru a prezenta ce proiect a facut, care au fost pasii prin care a trecut pentru a-l crea (daca ati pornit de la schita, de la un canvas, daca ati folosit mai mult parametric modeling sau direct modeling, etc), cum functioneaza, aici e momentul sa prezentati motion study-uriel;