



## Print-In-Place Folding Laptop Stand



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### Summary

Print-In-Place Folding/Expanding Laptop Stand that holds my 14" Dell Latitude 4500 Laptop at 45 degrees with zero...



7.20 hrs



1 pcs



0.20 mm



0.40 mm



PLA



67 g



Creality  
Ender 3

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Print-In-Place Folding/Expanding Laptop Stand that holds my 14" Dell Latitude 4500 Laptop at 45 degrees with zero issues.



All interlocking parts are designed with 0.5mm gaps.

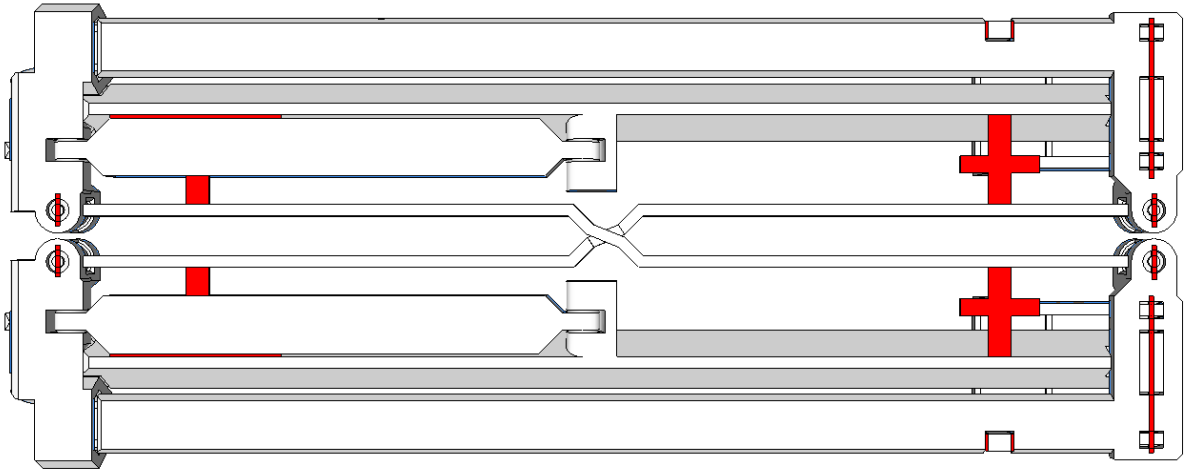
## **Print instructions**

0.4mm nozzle  
0.2mm layer height  
20% Infill  
3 perimeters  
1mm (5 layers) top and bottom

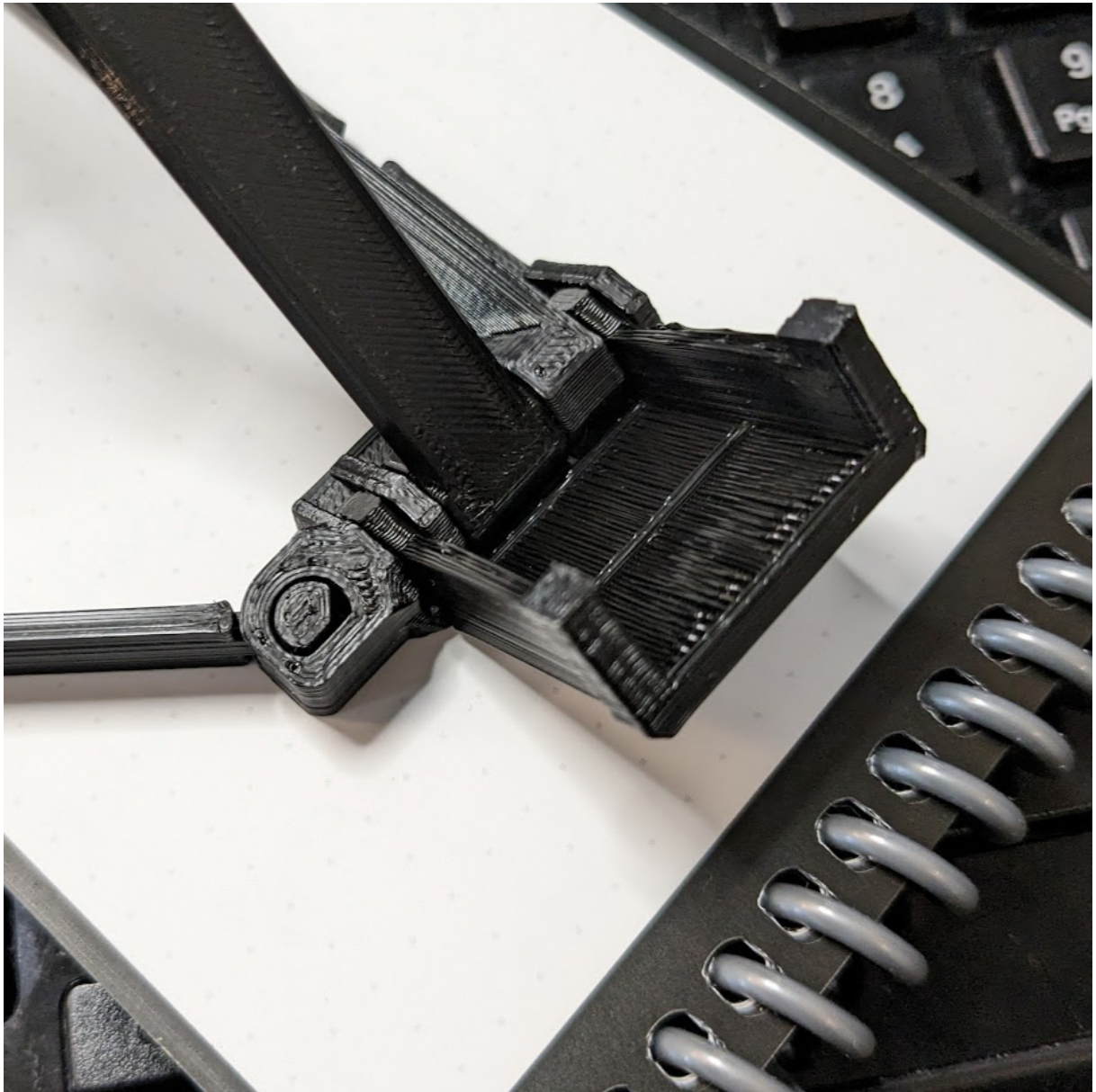
## **Post Print Instructions**

**[EDIT 20200918]** I added a new version 2 of the design that prints the front "toes" horizontally with hinges so everything is more compact when folded and the laptop weight force is now perpendicular to the layers.

**[EDIT 20230501]** I added a new version 4.2 of the design that changes the central hinge to something easier to print, as well as including 1st layer bed adhesion ... pads? ... for the small initial footprint print-in-place parts (red in following image).



**[EDIT 20230509]** I added a new (final?) version 4.4 of the design that changes the horizontal hinges to hexagons for max 45 degree overhangs & larger contact surface to the build plate. As well, I've enlarged/changed the vertical hinges to also increase their contact surface to the build plate.



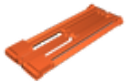




## Model files



**`pipfldnglptpstndv4-4.stl`**



**`pipfldnglptpstndv4-2.stl`**



**`pipfldnglptpstndv2.stl`**



**`pipfldnglptpstnd.stl`**

# Print files



## 7h12m-pla.gcode

PLA 0.40 mm 0.20 mm 7.20 hrs 67 g Creality Ender 3

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