

# Cell Phone Stand Design

To Whom it may concern,

I was asked to design a cell phone stand several weeks ago for your company, and in this document is the result. It has been designed to adhere to the given requirements:

- It fits within a bounding box of 120x75x30 mm,
- It uses less than 0.75 in<sup>3</sup> of support material (0.745 in<sup>3</sup>),
- It uses less than 4 in<sup>3</sup> of model material (2.078 in<sup>3</sup>),
- It holds a phone between 65 and 70 degrees (65.1 degrees), and
- It has less than 4 components (3 moving parts).

I also took the liberty of adding in several other key features that will enhance the user experience:

- It folds quite simply, and because it is one piece no pieces will go missing,
- It leaves the majority of buttons unhindered, and covers no ports or speakers,
- It accommodates a wide range of phones, including their cases, and
- It has several large flat areas that can be used for advertising; a sticker with your logo on it stuck onto the phone stand would be a great way to get them to look at your logo often and remember the company.

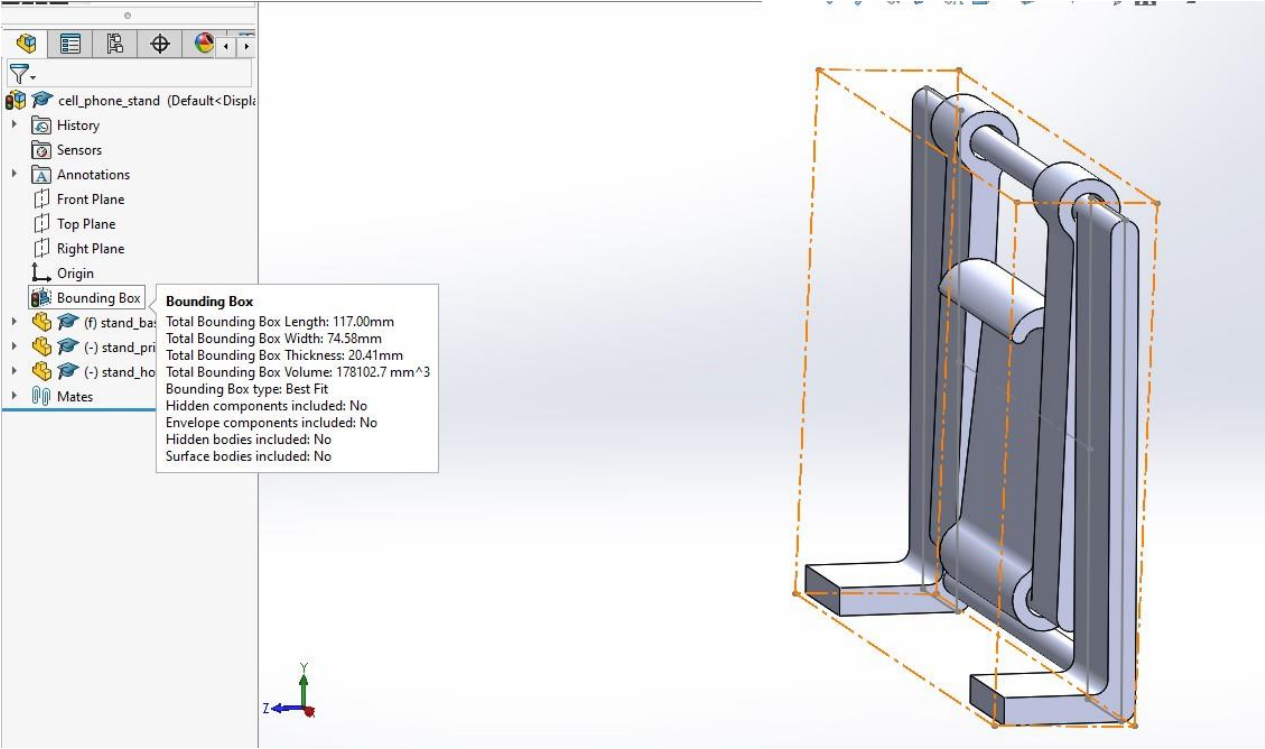
On the next few pages are pictures of the model and other programs demonstrating what I have listed above. Thank you for giving me this opportunity, and I hope that this design is to your satisfaction,

Remy Lambert

2020/11/23



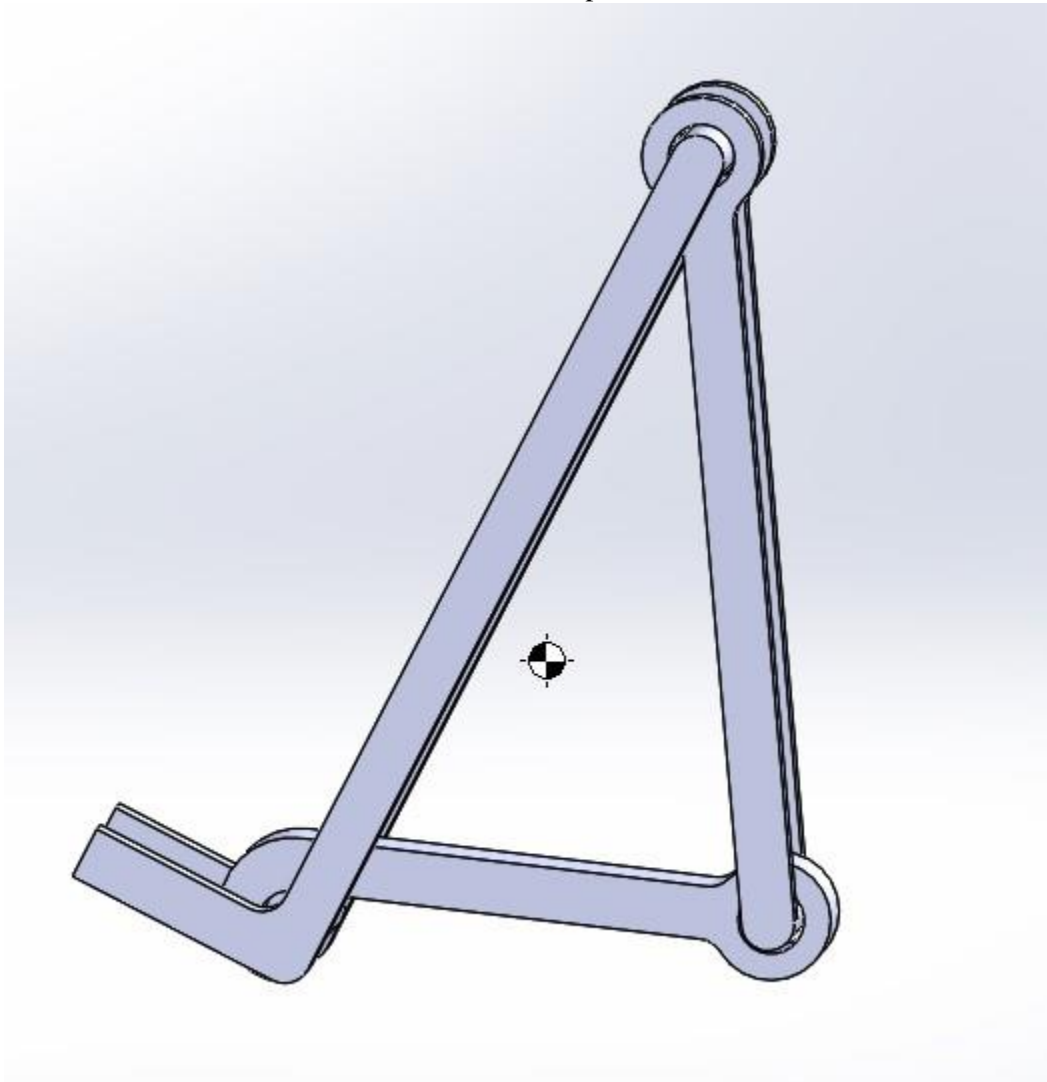
Bounding box of cell phone stand:



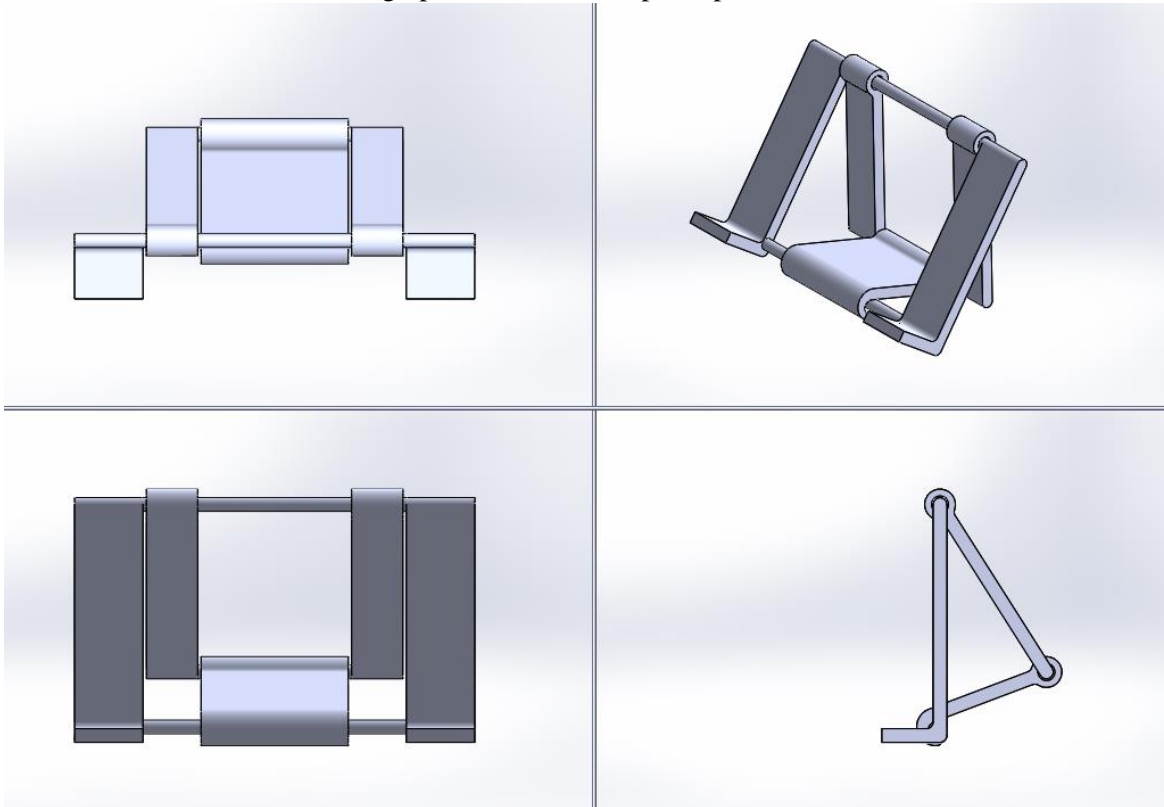
Model and support material of cell phone stand:

Tray Estimations		
cell_phone_stand - stand_base-1	Print Time	1h 12m
	Model Material (in <sup>3</sup> )	2.078
	Support Material (in <sup>3</sup> )	0.745

Center of mass of cell phone stand:



Orthographic views of set-up cell phone stand:



Orthographic views of collapsed cell phone stand:

