



## Water Bottle Steady Cam V3

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### Summary

V3 . . . Created a non-moving bottom holder for the phone. It's now joined to the main frame. A more durable design....

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V3 . . . Created a non-moving bottom holder for the phone. It's now joined to the main frame. A more durable design. V2 weakest point was around the pivot joint. The old version is still there for download.

Added a long version of the top phone holder for larger phones.

This my "First" 3D design. I am brand new to 3D printing! I was looking for a inexpensive and compact steady cam. I wanted the design to be comprised of inexpensive parts and to be mostly printed on a home 3D printer.

The bottom of the design is constructed to hold a water or pop bottle as a counter weight.

I used DesignSpark Mechanical to design the parts and used Simplify 3D to slice. The parts were printed on an Ender 3 printer.

Other parts needed:

1. 2 ABEC 7 skateboard bearings. (I found 2 suitable ones in a dollar store fidget spinner.

2. Hair elastic (for phone holder)
3. 3 M4 x 20mm bolts and nuts.

## **Print Settings**

### **Printer Brand:**

Creality

### **Printer:**

Ender 3

### **Rafts:**

Yes

### **Supports:**

Yes

### **Resolution:**

0.2 layer height

### **Infill:**

30 %

**Filament:** CCTREE PLA Blue

### **Notes:**

I printed the phone holder in an upright position with supports. See Simplify 3D screen capture.

How I Designed This =====

A Sample Cam Video

This was designed completely in DesignSpark Mechanical. I loosely borrowed ideas from a few different designs I found on Thingiverse.

Category: Camera

# Model files



**steady\_cam\_bottle\_bracket.stl**



**steady\_cam\_phone\_top\_long.stl**



**steady\_cam\_phone\_bottom.stl**



**steady\_cam\_main\_bracket2.stl**



**steady\_cam\_handle.stl**



**steady\_cam\_bearing\_holder.stl**



**steady\_cam\_phone\_top.stl**



**steady\_cam\_main\_bracket3a.stl**

[Find source .stl files on Thingiverse.com](https://www.thingiverse.com)

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