totem

# Raspberry LCD Display Stand

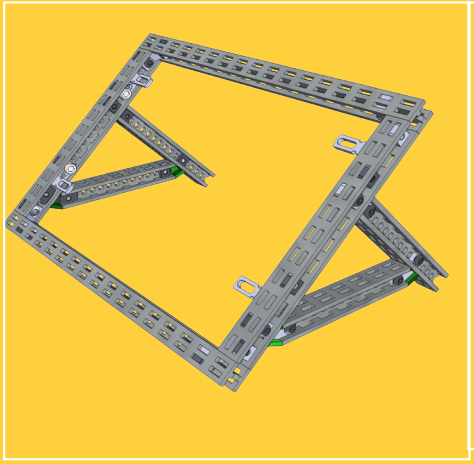
# Building Instructions.

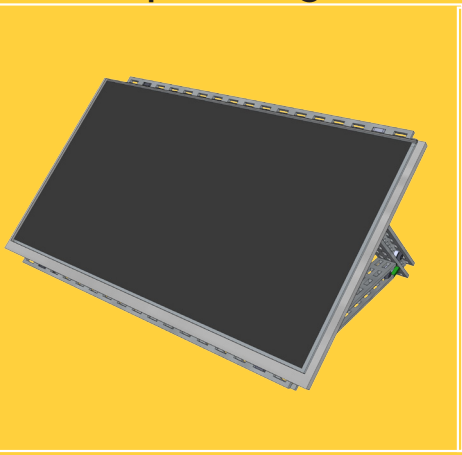
**Simple and easy to build stand for your Raspberry Pi LCD display. Have your display get the right angle with this solid and lightweight stand.**
**Version 1.0 Jan 2018**

# Raspberry Pi touchscreen stand.

This model are taken from an idea of Gerard Wassink from the Netherlands. He decided to make a frame for his Raspberry Pi 3 B with touchscreen. It was inconveniently laying on his desk, leaning on some awkward extenders; flimsy at best. He cut some Totem beams at the right lengths, mounted them together and built a 45 (-ish) degree frame so that it sits firmly on his desk now. He also made a variant with 2 extra legs, that made it possible to place the LCD/Raspberry in a vertical position, so that it can be put on a shelf at eyes height.

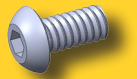
Gerard Wassink's website: http://nerd.gerardwassink.nl





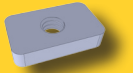
# Parts needed to build this model:

24x



M3 6mm bolt

24x

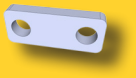


Nut M3 6x10

4x

C-Bracket

2x



2-hole Simple

2x

L-Twist adj.

2x

L-Twist adj. mirror

4x

2-hole 45 simple

4x

Single side filler

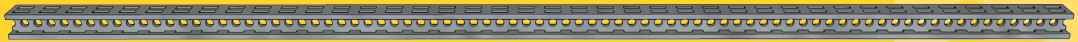
You will need to cut beams in the following lengths and quantity:

2x 7cm
2x 8cm
2x 11cm
2x 17cm

Cutting strategy:
Beam 1: 1x17cm , 2x8cm , 1x7cm
Beam 2: 1x17cm , 2x 11cm
Beam 3: 1x7cm

The cutoff will be 0cm in Beam1, 1cm in beam2 , and the 3rd beam will be 33cm after cut.

Beams needed : 2 beams if you can find a 7cm piece somewhere, otherwize 3 beams is needed.



X — Build step number

#n — How many to build.

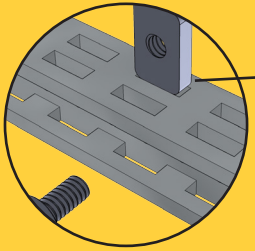
This panel shows what to build in this step.

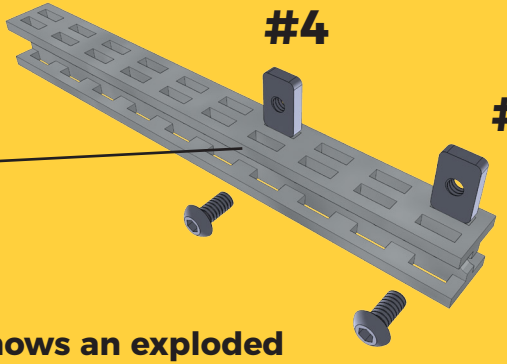
Sub Assembly name — A-Z

This panel shows what parts you need to build this step.

Parts that have to be cut or the sub-assemblies needed.

Loop view of details





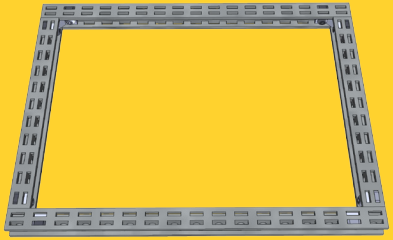

This panel shows an exploded view of how to build this step.

The #n notifies in which slot in the beam the rectangular nut should be put.

Text with additional explainations.

# 1

1x

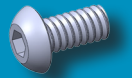


A

4x

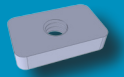
C-Bracket

8x



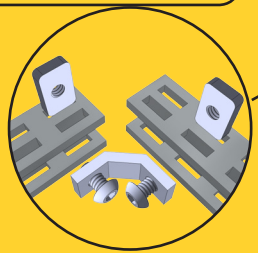
Bolt M3 6mm

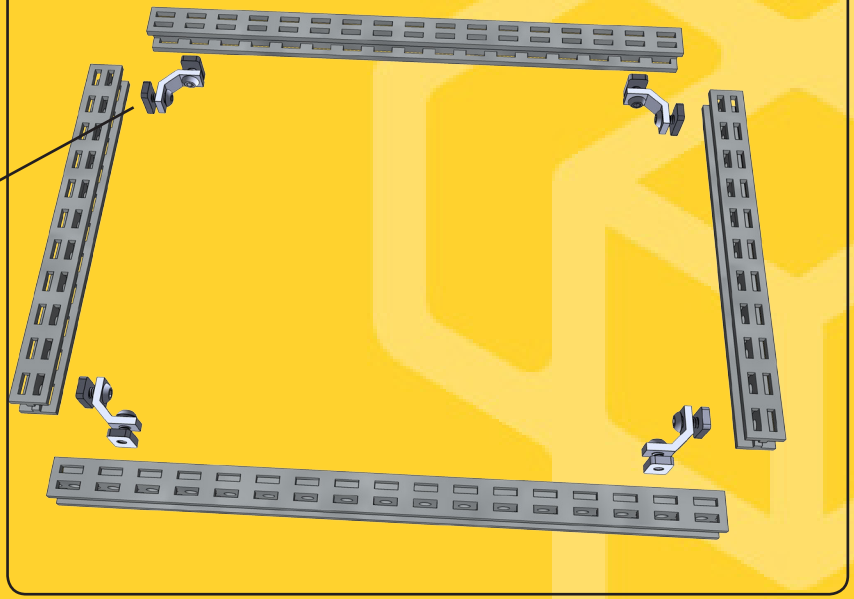
8x



Nut M3 6x10

**Beams : 2 x 11cm , 2 x 17cm**

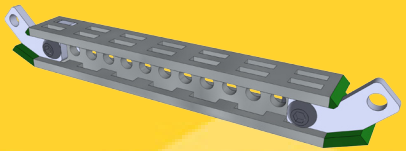




First make the frame, it's a standard build, with 4 C-bracket corners.

# 2

**2x**



**B**

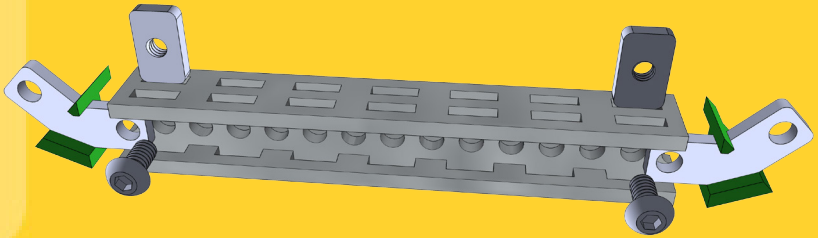
4x Single side filler

4x Bolt M3 6mm

4x Nut M3 6x10

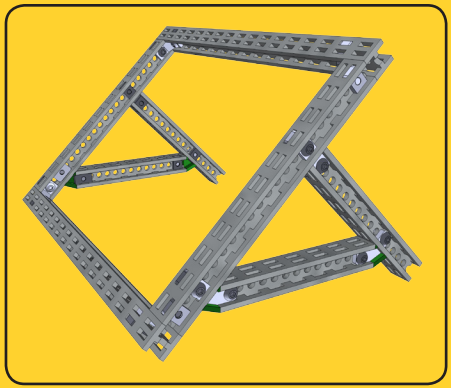
4x 2-hole 45 simple

**Beams : 2 x 7cm**

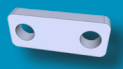


Make 2 support beams.

# 3

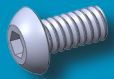


2x



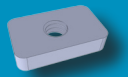
2-hole Simple

8x



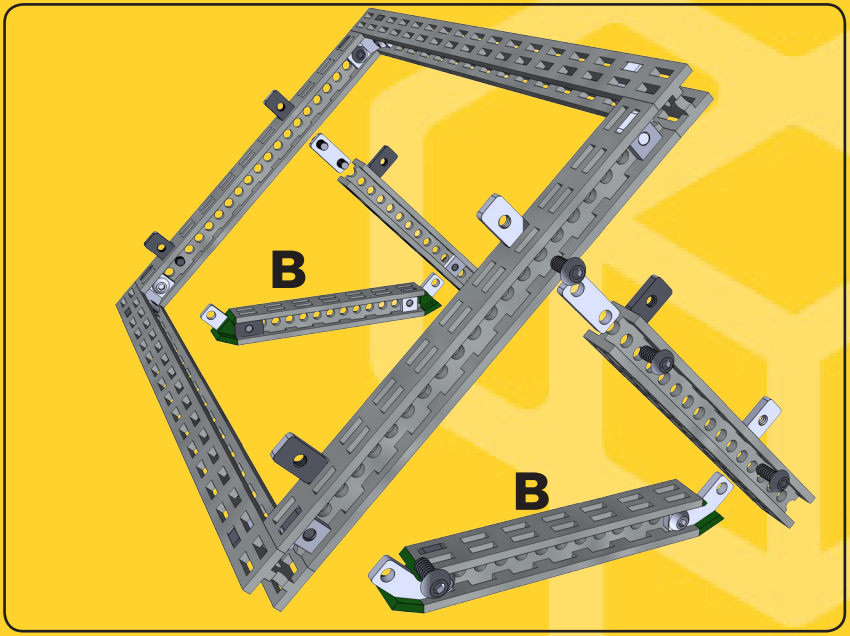
Bolt M3 6mm

8x



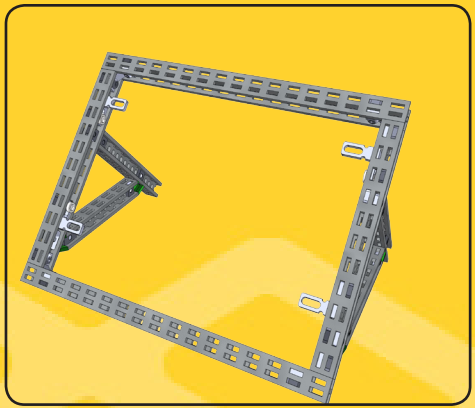
Nut M3 6x10

**Sub-assemblies A + 2x B , Beams : 2 x 8cm**



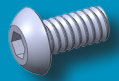

The support legs are then assembled to the frame.

# 4

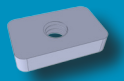


2x L-Twist adj.

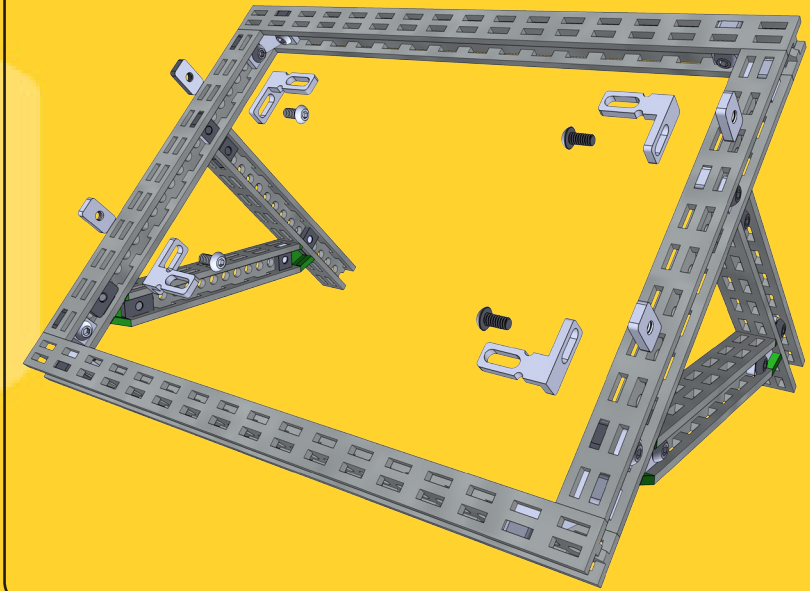
2x L-Twist adj. mirror



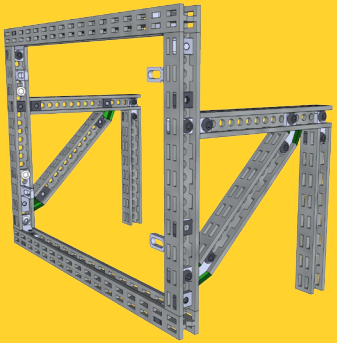
4x Bolt M3 6mm



4x Nut M3 6x10

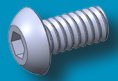


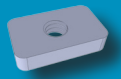
# 5



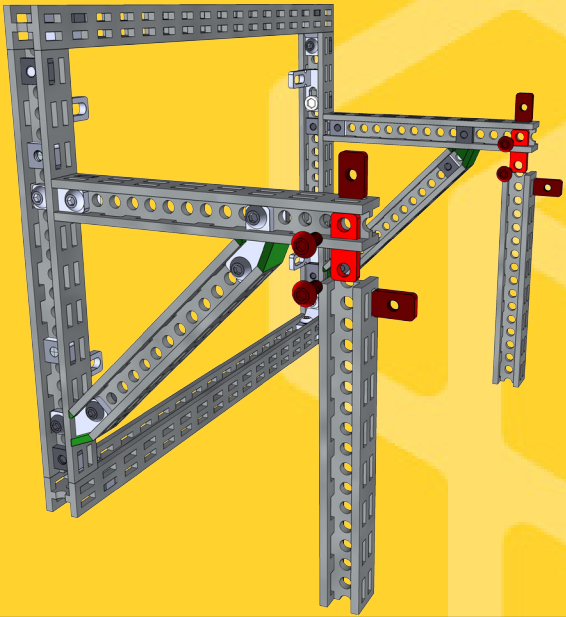
2x

2-hole Simple

4x

Bolt M3 6mm

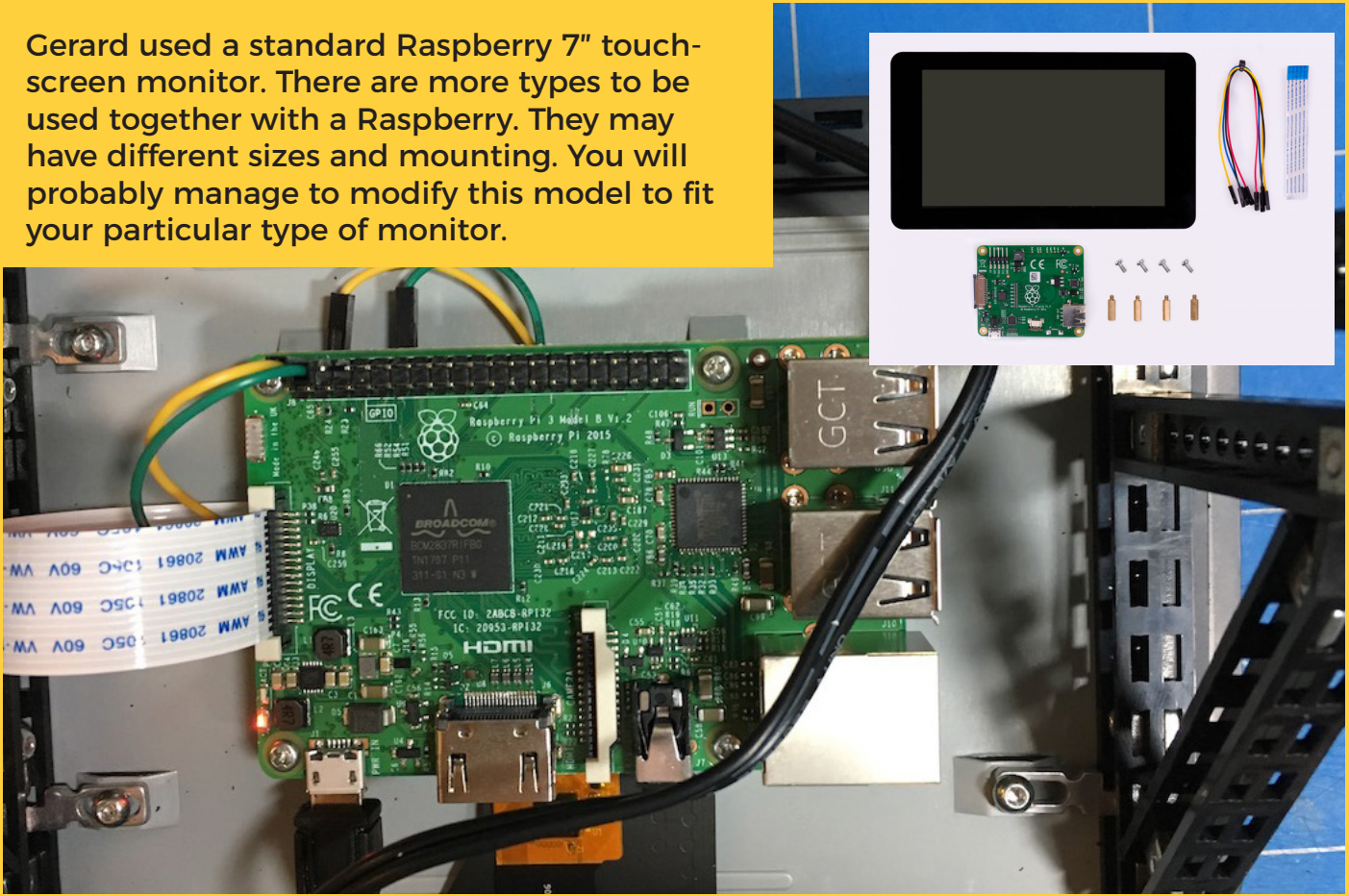
4x

Nut M3 6x10

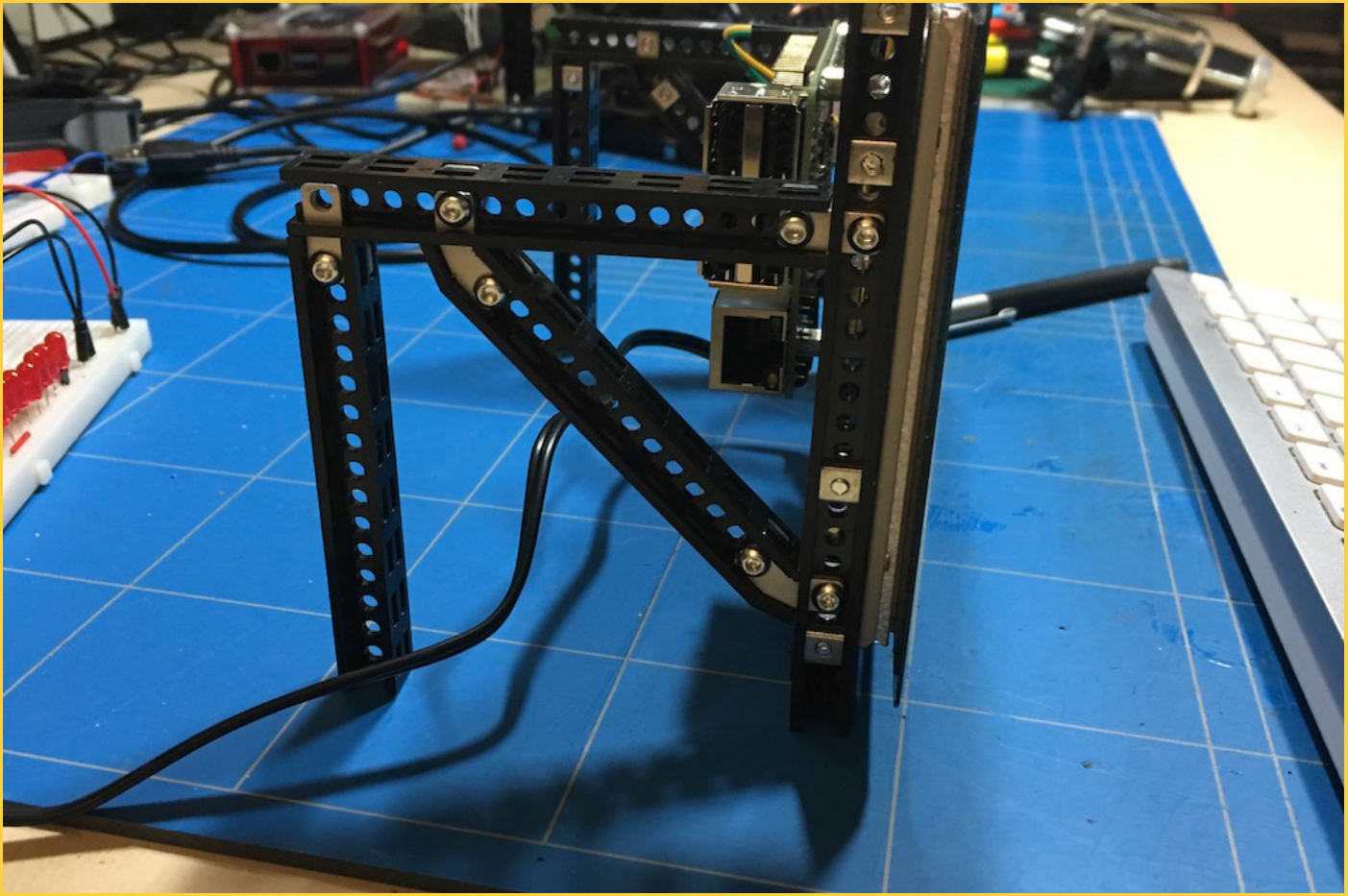
**Beams : 2 x 8cm**

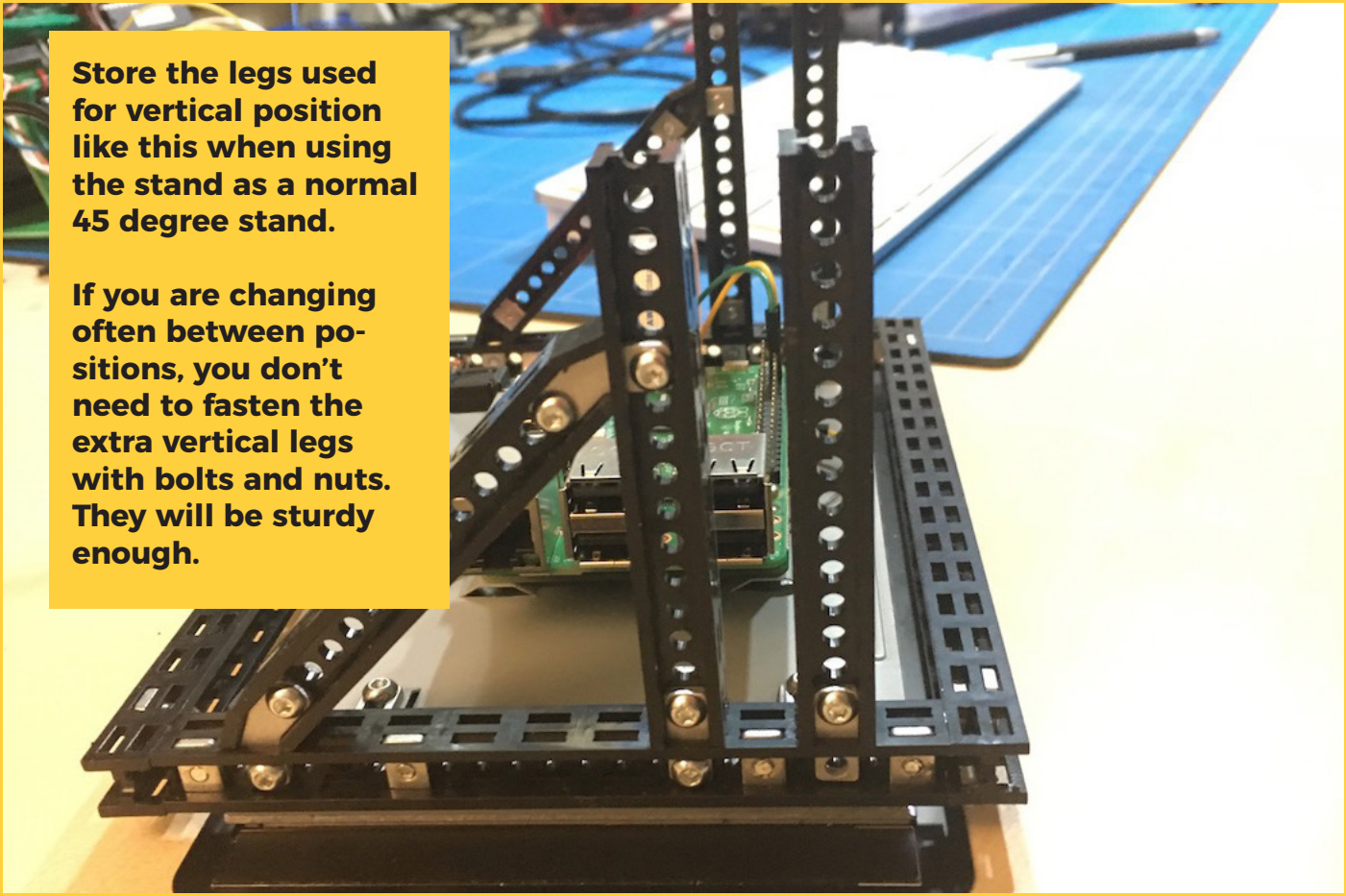


Optional step:
If you also prefer to place your LCD/Raspberry in a vertical position, add these vertical beams.

Gerard used a standard Raspberry 7" touch-screen monitor. There are more types to be used together with a Raspberry. They may have different sizes and mounting. You will probably manage to modify this model to fit your particular type of monitor.







**Store the legs used for vertical position like this when using the stand as a normal 45 degree stand.**

**If you are changing often between positions, you don't need to fasten the extra vertical legs with bolts and nuts. They will be sturdy enough.**