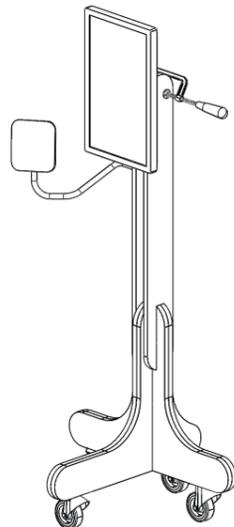
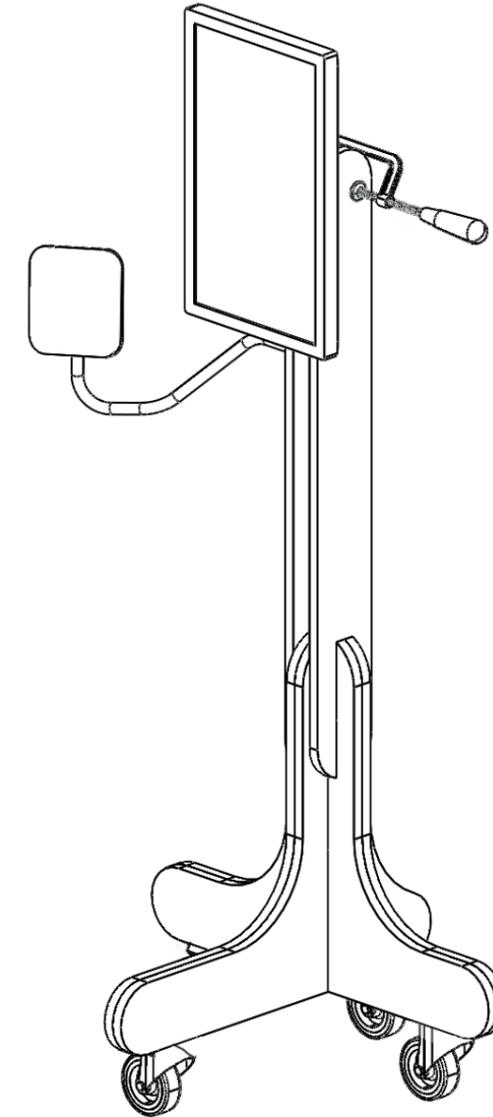


SKAPA

**BUILD AN OPEN SOURCE
NETWORKED MAKER STATION
USING AN OLD SCREEN**



This open source project is a product of PROTO* lab at the Department of Business Development and Technology, BTECH, Aarhus University, Denmark.

SKAPA aims to support and facilitate skill and knowledge sharing between makerspaces. It allows for hybrid networking between makers by facilitating video communication using open-source and recycled electronics.



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You will need:

1. Access to a laser cutter with a minimum size of 1200mm X 800mm

2. The drawing file: SKAPA_PROTOLab.dxf

Note that the drawing file is .dxf but depending on the laser cutter convert it to an appropriate format.

3. Materials as per the list below

MATERIAL	NUMBERS
Plywood Parts	
18mm thick laser cutting grade birch plywood - 1200mm X 800mm	X 2
<i>Use the above to laser cut:</i>	
Feet (X-axis)	X 2
Feet (Y-axis)	X 2
Spine	X 2
T-Spacer	X 2
Wood Plate as a base for electrical and electronic hardware	X 1
Metal Parts	
Base wheels 100mm dia with fixing screws	X 4
Carpenter's C-clamp 120mm X 250mm	X 1
Flexible arm clamp (used for screen tablets, choose a heavy duty one)	X 1
Electrical and Electronic Hardware	
A computer screen*	X 1
DVI to micro HDMI cable	X 1
Raspberry Pi** with OS installed data card and power supply (the set)	X 1
Raspberry Pi camera	X 1
3 plug power socket with 3m to 5m extension cable	X 1
Nut and bolts to fix the Raspberry Pi board	X 4

* (recycle an old screen, for eg. ones with DVI ports. Many organizations and institutions are discarding these, because HDMI is the standard now)

** <https://www.raspberrypi.com/>

