

## Garment rack

### Design and functions – development of the idea

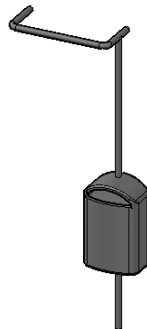
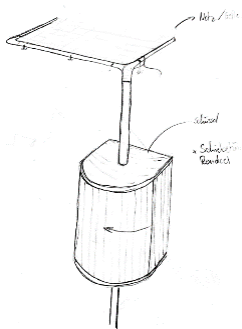
After we decided to build a garment rack as our small-series-project, we defined the profile of requirements. We collected every aspect, that the piece should fulfil. In our group, we decided about the most important features, which must be included.

We started with the dimensions of our garment rack, which should be approximately 1600mm high, 1000mm wide and 250mm deep. Also, it should include hooks for a minimum of three jackets, a place to put a jacket on a hanger, a quick storage option for keys and a wallet and some more storage space for small things like a scarf and caps.

With these specifications for our furniture, we split up in smaller groups to create some first drafts. It was hand sketches and rough AutoCAD or PYTHA drawings.

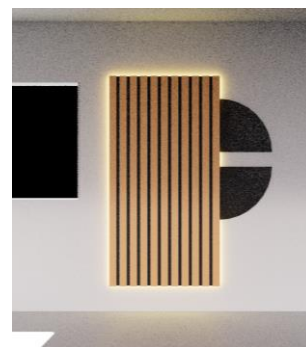
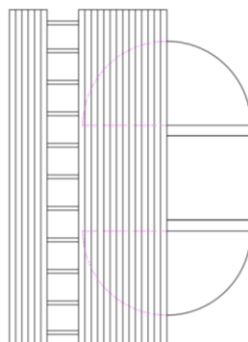
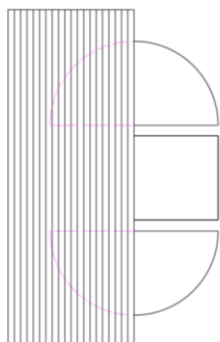
We presented our results in front of each other and picked some of the designs for further developments.

For example:

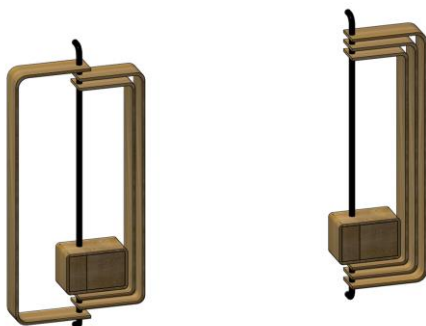


The Bus-stop

The sailing boat



The Wall panel



The Mill

## Garment rack

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After more presentations with even more detailed drafts, we chose, in a voting with the whole group, two of them with which we wanted to deal further.

These two were the sailing boat and the mill. We built some models out of cardboard and wood to have a better visualization of the two garment racks and how they could be used.

With these models, we made our final decision for the mill.

For the constructive part that was following, we again split up in smaller groups. Each group was supposed to deal with one construction detail. These construction details were the panels, the carcass, the hooks, the rod and the rotation mechanism.

We stayed in this groups to consider different manufacturing options and built models to illustrate things or see if they could work in a certain way.

In the week before the “pilot piece” (Nullstück) every detail was planned, so that a serial production would have been possible.

There are three rotatable panels that can be set in different positions. For example, if you don't need all of the panels or for a visual effect. The Jackets can be hidden behind them or in between them, so it looks like they are in a kind of frame.



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There are hooks on the inside of the panels and one in the rod. They are visually set off by a different type of wood. They can be folded in and out, so that they can complement the clean look of the panels.

The carcass has, like the panels rounded corners and is also made of oak. First, we wanted to build drawers in it, but these would have needed too much space in that already small carcass, so we decided to install a flap instead.



The mounting of the garment rack to the wall is mostly achieved through the hinges in the carcass. When the carcass is attached to the wall, the rod can be aligned and with the depth adjustable wall holder mounted to the wall. This results in a quite easy mounting with lots of adjustment possibilities.