Bedmate

lofted bed shelf for college dorm rooms

Many **college students** loft their beds to create more **storage area** and floor space.
However, there is nowhere to place school books or charge electronics while you are lofted 6ft in the air.

How can design be introduced into the **college dorm room** to fix the one flaw of lofted beds?

WHAT THEY WANT

CHRIS D.
RUTGERS UNIVERSITY

*"It would be nice to watch movies in bed without having to worry about my **laptop** crashing to the floor when I fall asleep mid movie."*

MICHAEL J.
VIRGINIA TECH

*"I need a place to charge my **phone** and put my **alarm clock**...Oh and **food!**"*

KATIE B.
CLEMSON UNIVERSITY

*"I love to read. It would be nice to have a space to place my **books** when I get tired. They usually end up falling to the ground in the middle of the night... Then I end up loosing my place!"*

JESSIE F.
WAKE FOREST

*"I actually use one of the bunk shelves that are already on the market but I **can't fit much** on them at all. Plus I'm a little **skeptical** about putting too much weight on them. They don't seem **sturdy**."*

CURRENT MARKET

flimsy
little support holds limited weight

crowded
no room for laptop and books

limiting
a simple hook does not fit a variety of beds

DESIGN GOALS

The design needs to have a **large surface area** to fit a laptop, books, and other necessities.

In order to support a laptop and heavy books, the design needs to be **strong**.

With a variety of head board thicknesses, the design needs to be **adjustable**.

INSPIRATION

By adding a bit of color to the design philosophies of Dieter Rams, high quality design can be introduced into college dorm rooms.

WHERE IT ALL BEGAN

During lunch one day in the school's dining hall, I had some ideas for the clamping mechanism.

IDEATION

Starting with basic forms, I then continued to explore the engineering further. Different handle forms were also explored as well as special features.

CORD MANAGEMENT

Version one provides **two cord holes** to accommodate both sides of the room.

Version two simplifies the two cord holes into **one central hole**.

Version three places the cord holes on the lip to **avoid holes in the tray**.

TECHNICAL DRAWING

THE BUILD_001

PREPPING MATERIAL

BENDING ACRYLIC

DRILLING ACRYLIC IS SCARY!

THE BUILD_002

CLAMPING BRACKETS PREP

GLUE UP

FINISHING

FRIENDS

MATERIALS

Attaches to the **head of any bed**.

Unobtrusive clamp slides into body of shelf.

Easy access cord slot for electronic necessities.

bedmate
NO STRINGS ATTACHED