

Multipurpose 3D-Printed Stand Model

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Overview:

Designed a versatile single-piece stand for laptops, monitors, tablets, and gaming devices with two adjustable angles for ergonomic use.

Concept:

Inspired by Thingiverse model #4705290, customized for multipurpose use. Offers 'slant up' for laptop elevation and 'slant down' for touchscreen use.

original seed file:

<https://www.thingiverse.com/thing:4705290>

Printing Process:

- Modified the STL model.
- Prepared MakerBot-specific print profiles and toolpaths.
- Created a complete MakerBot Print Project ZIP with metadata and thumbnails.

Description:

This is a versatile, multipurpose stand designed to support a variety of devices including laptops, desktop monitors, tablets, mobile phones, and gaming controllers. It serves as a stable and ergonomic platform, allowing users to position their devices at optimal heights and angles for enhanced comfort and usability.

The stand features two adjustable orientations to suit different preferences and device types:

- **Slant Up Position:** Ideal for laptops and monitors, elevating the screen to eye level to promote better posture and reduce neck and back strain during extended use.
- **Slant Down Position:** Perfect for touch-enabled devices such as tablets and smartphones, offering a lower, closer viewing angle that enhances interactivity and ease of access.

Crafted as a single, seamless 3D-printed piece, the stand is both durable and highly portable, making it convenient to carry and suitable for use in home, office, and on-the-go workspaces.

Outcome:

Successfully produced a portable, ergonomic, multi-angle device stand with full MakerBot compatibility.

Files Included: STL, print profile, MakerBot print project, screenshots, and the original reference files.

Demo:

