

Bulldozer Attachment

Print a bulldozer attachment for the Root Coding Robot! The bulldozer attachment pairs well with activities like coding the Root robot to clear the streets from “snow” or score a goal. Use cotton balls as a manipulative!

Assembly

This is an STL file of a snap-on “Bulldozer” blade to snap onto the Root Robot. We’ve printed it in PLA and it has enough stiffness to easily attach and detach from the robot, and stay in place while driving around.

Note: It should print well in ABS, PETG or other rigid plastics, although we have not test printed it with those materials.

The cutout opening in the middle is to allow small objects such as marbles or game pieces to be “held” by the front of the bulldozer and pushed to the side while the robot turns, without the objects sliding away to one side or the other.

The model measures approximately 143.3mm x 135.4 x 42.2mm (5.64" x 5.33" x 1.66"). We recommend printing it oriented horizontally on a raft, with short supports all along the thin edge where it touches the raft to keep it adhered during printing, and some taller supports under the cutout in the middle.



Subject(s):

- 3D Modeling
- Mechanical Engineering

Experience Level:

Beginner

Print Time:

5 hours

Supplies:

- 3D printer with a 150 x 150mm build area (6" x 6") or larger
- 1 spool of filament
- [iRobot Coding platform](#)

Disclaimer:

3D printed items are not toys and should be kept away from small children, due to the danger of cracking or breakage of thin parts and the resulting sharp edges.