

From: Christian Trevino christiantrevino@hotmail.com
Subject: Re: .stl File for Rowdy Walker
Date: February 18, 2018 at 1:30 PM
To: Joseph Galloway arr466@my.utsa.edu
Cc: Pranav Bhounsule pranav.bhounsule@utsa.edu



Hi Joseph, Dr. Pranav,

I am attaching the .sldprt file for the ramp. Unfortunately I am unable to save it as a .STL file because I do not have Solidworks on my laptop. If you open the file on Solidworks at UTSA, you can save it as an .STL file, which then is printable on the printer. You can print the ramp at about 20% infill.

I am also attaching an instructions sheet that explains how I would remove the supporting material from the printed Rowdy.

If you have any questions, please let me know.

Thank you,
Christian

From: Joseph Galloway <arr466@my.utsa.edu>
Sent: Tuesday, February 13, 2018 4:07 PM
To: Christian Trevino
Cc: Pranav Bhounsule
Subject: Re: .stl File for Rowdy Walker

Good Afternoon Christian,

Do you mind sending me the .stl file for the Rowdy Walker ramp? Dr. Bhounsule asked for me to print out a few for him. He is also asking for instructions regarding how to assemble and clean the Rowdy Walker.

Thank you for your help and time. Have a great rest of your day.

Respectfully,

Joseph D. Galloway II

On Thu, Feb 1, 2018 at 11:20 AM, Christian Trevino <christiantrevino@hotmail.com> wrote:
Hi Joseph!

Hope your semester is going great, and of course I don't mind sharing the file. You can find it attached.

Thank you,
Christian

From: Joseph Galloway <arr466@my.utsa.edu>

Sent: Tuesday, January 30, 2018 4:22 PM
To: Christian Trevino
Subject: .stl File for Rowdy Walker

Hey Christian,

I hope you're doing well.

I'm working on a project in the RAM Lab this semester using Gazebo. Dr. Pranav asked me to create a simulation using a passive dynamic walker. Do you mind sharing the Rowdy Walker .stl file with me if you still have it?

Respectfully,

Joseph D. Galloway II



Ramp (5 deg slope).SLDPRT

Rowdy-Walker Printing & Supporting Material Removal:

Printing:

-Use ABS material

Cura settings:

-**Fill density:** successful walkers printed between 60-80% infill

-**Support type:** everywhere

-**Platform adhesion type:** Brim

-**Print scale:** 75%

Pre-saved on red USB:

- Next to the front display, insert the USB. Use the track wheel to select, "RowdyWalker#6.gcode"

Tools:



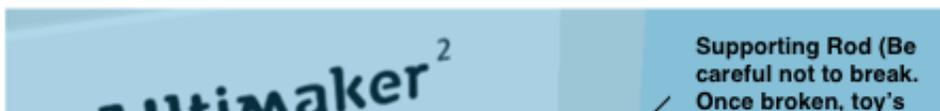
Removing supporting material:

-Use a small flathead screwdriver to scrape/break/remove the inner supporting material found in between the moving leg and fixed leg. Slowly break off the supporting material with the screwdriver and remove as you go. If you need to pull some of the supporting material located beneath the arch of the moving leg, use a small pair of needle nose pliers. Work slowly (about 10-20 mins to complete).

-You may need a flashlight to get a better look at what you are breaking off.

-It is best to study the layered cross-sectional view in Cura of Rowdy to see exactly where the supporting material is located within the assembly. The goal is to only remove the supporting material.

-Be careful not to break the inner rod that supports the moving leg.



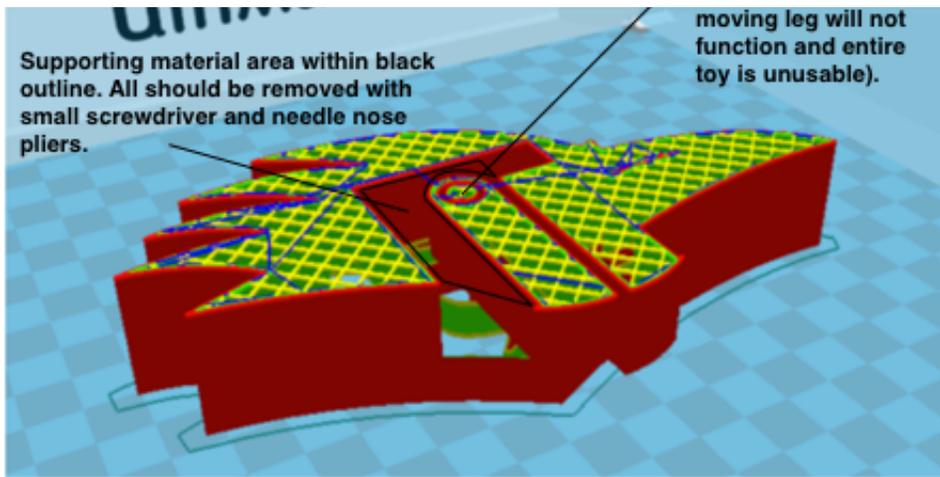


Figure C-6: Cura Layered Profile for Conceptual Design #6