



open source

Process Flow Diagram

1. Waste material procural and material selection

Size reduction of waste material

2. Determine appropriate polymeric matrix

Heat and mechanical mixing

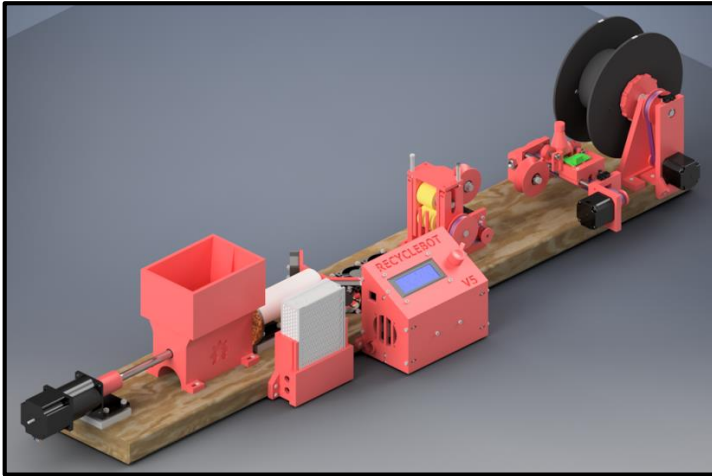
3. Extrude filament from recyclebot

Obtain STL, slice it, export gcode to printer

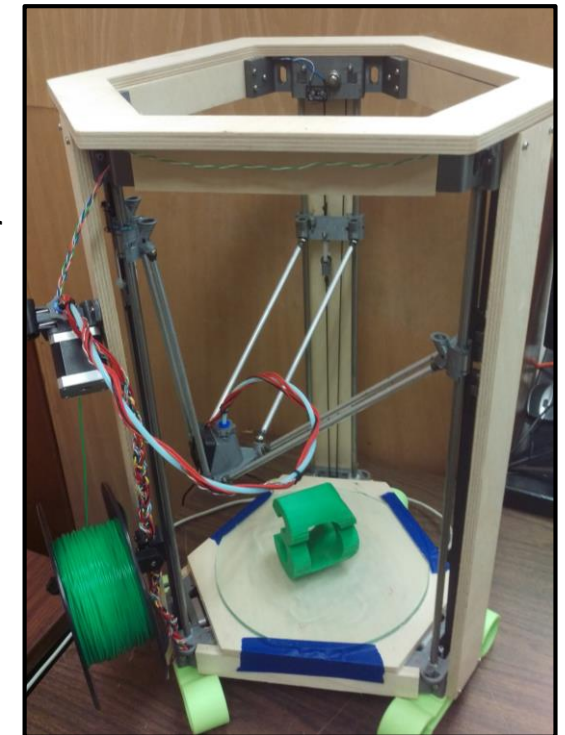
4. Optimize printing parameters and print final product



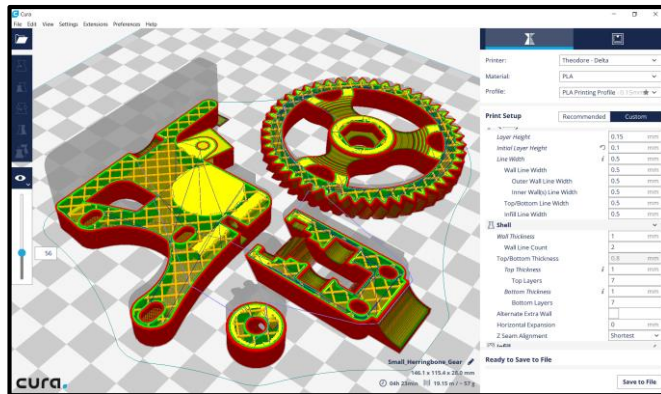
Random waste material



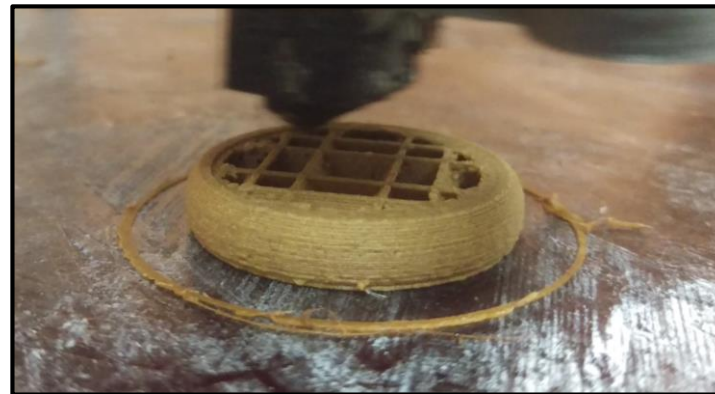
Recyclebot V5.1



Athena build RepRap 3D printer



Cura rendering



3D printing