

Lab 2 Report

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3D Printing

Difficulties and Experiences

- Screw on filament sometimes too tight or loose, causing filament output to be uneven
- Had to unload and reload filament a few times to get the desired extrusion before printing
- Printer bed had uneven and broken tape, thus we had to remove the faulty tapes and reapply fresh tapes for the base
- Unevenly tapped printer bed may result the base of the print to be uneven too
- Aligning human upright caused some issues with the support and prone to more printing errors, thus we reprinted with the human orientation to be lying horizontally instead
- Filament sometimes does not stick on the printer bed, and thus is dragged around by the extruder, causing the filament to clump up and messing up the print
- Small details not printed properly (sometimes more filament were extruded at a certain time, causing one side of the small detail to be thicker than the other side)
- Need to add in tolerance, adjust the model scale accordingly
- Holes in design were not printed with the right dimensions, resulting in bad fitting of assembled parts

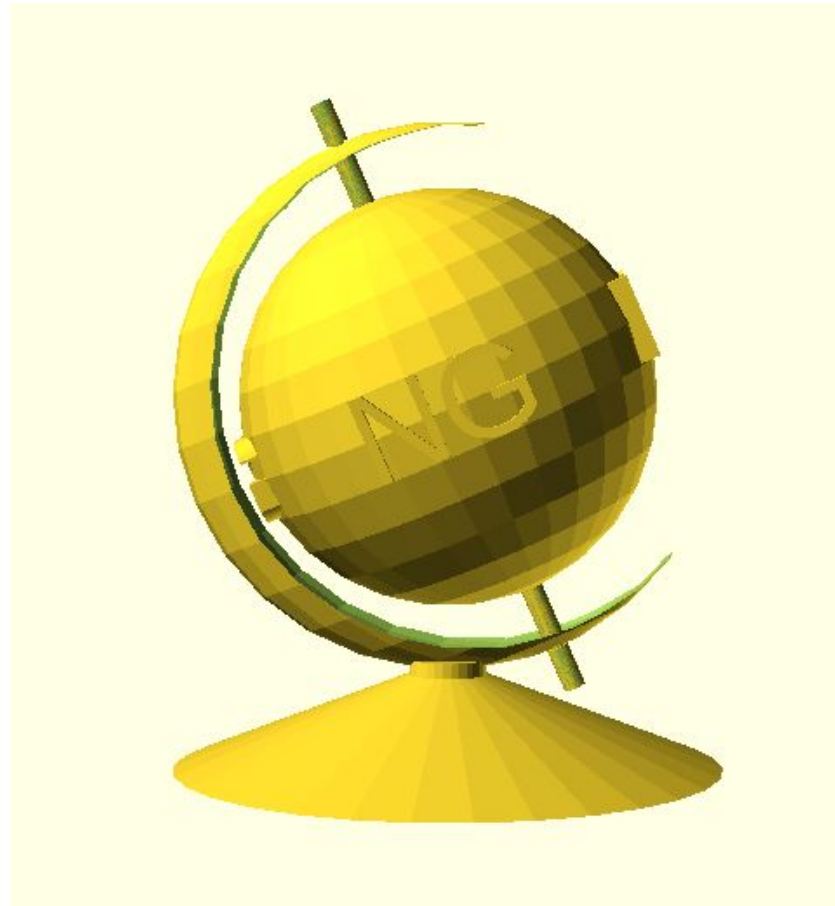
3D Prints

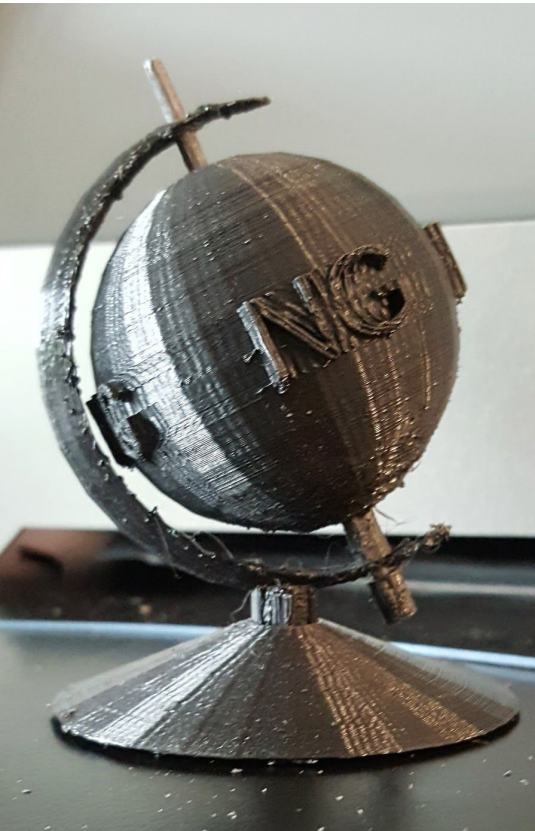
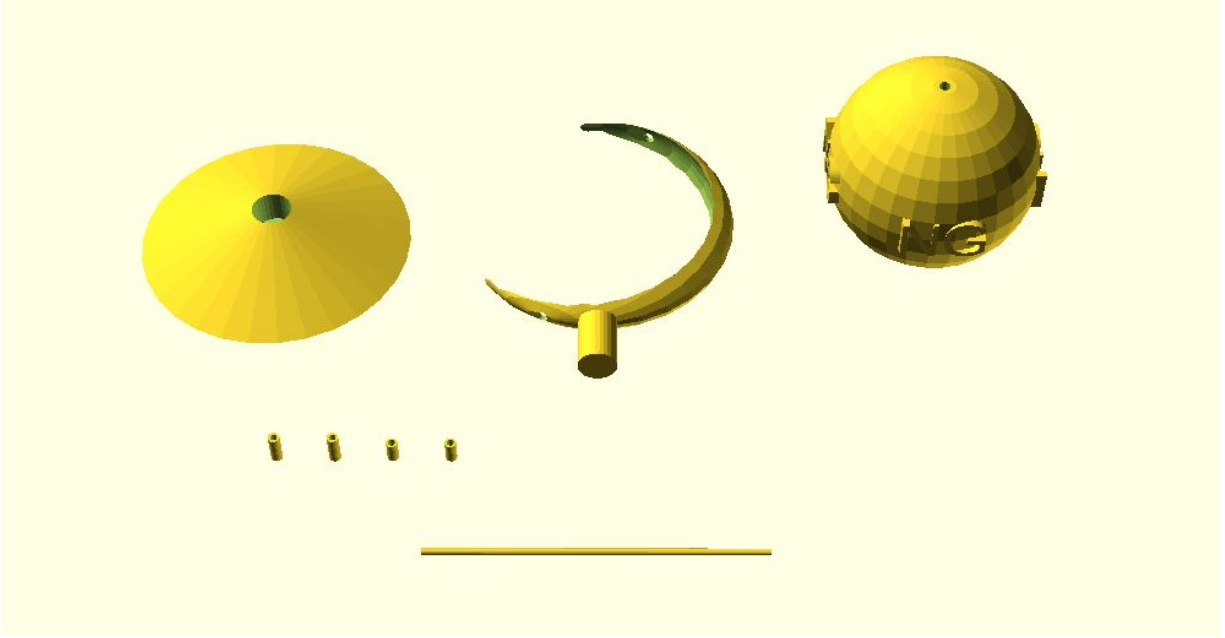
Test Object



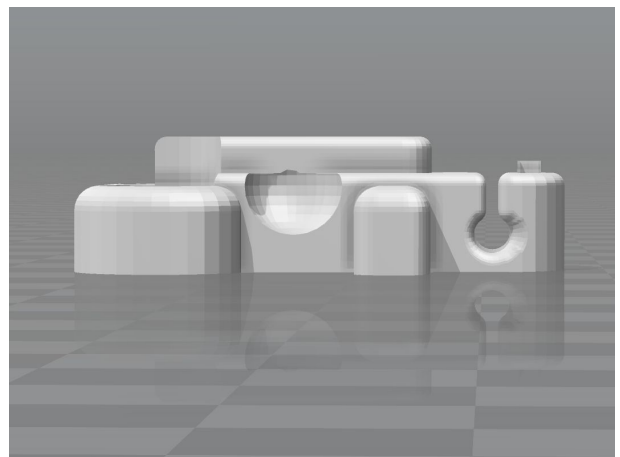
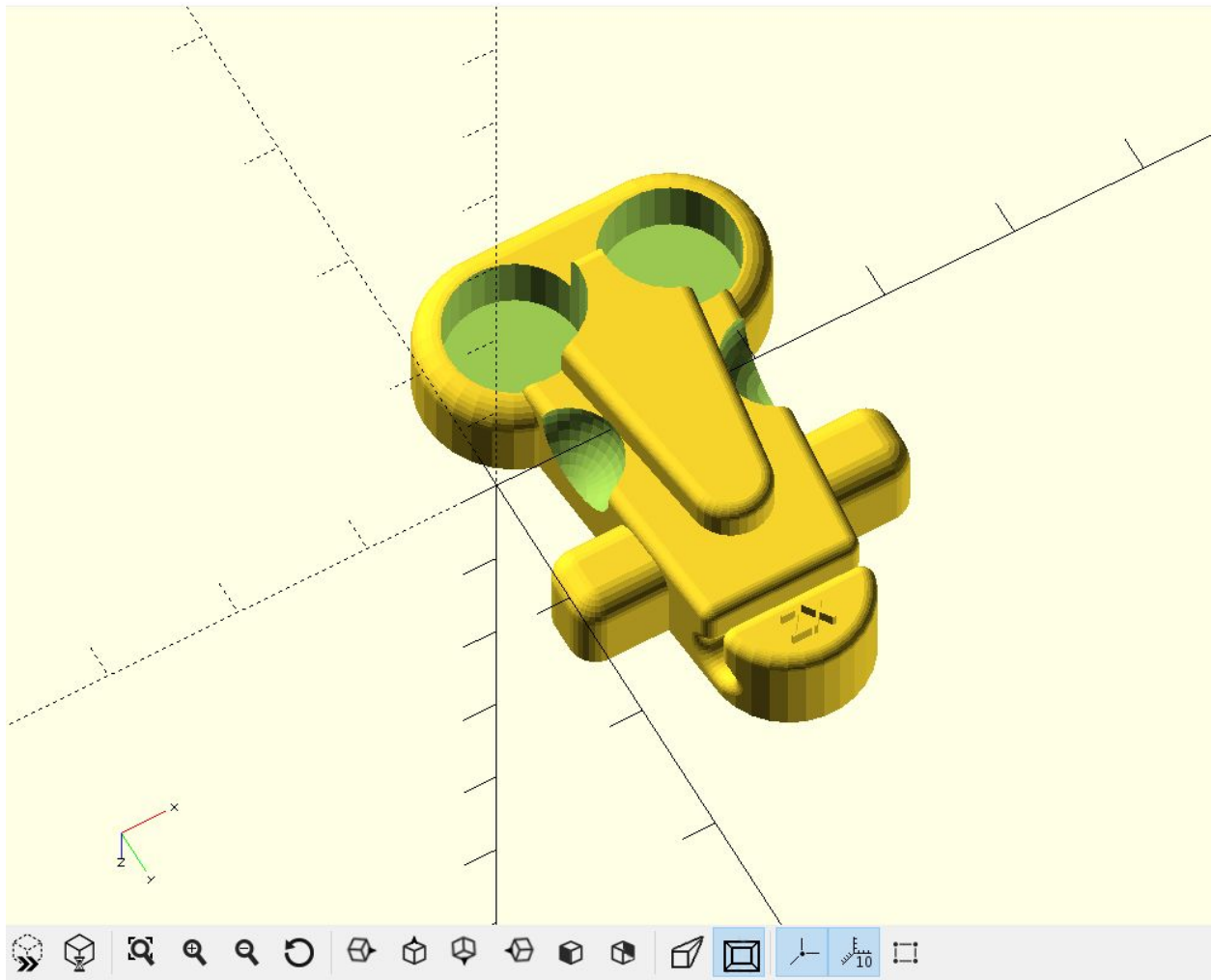
OpenSCAD Objects

Spinning Globe



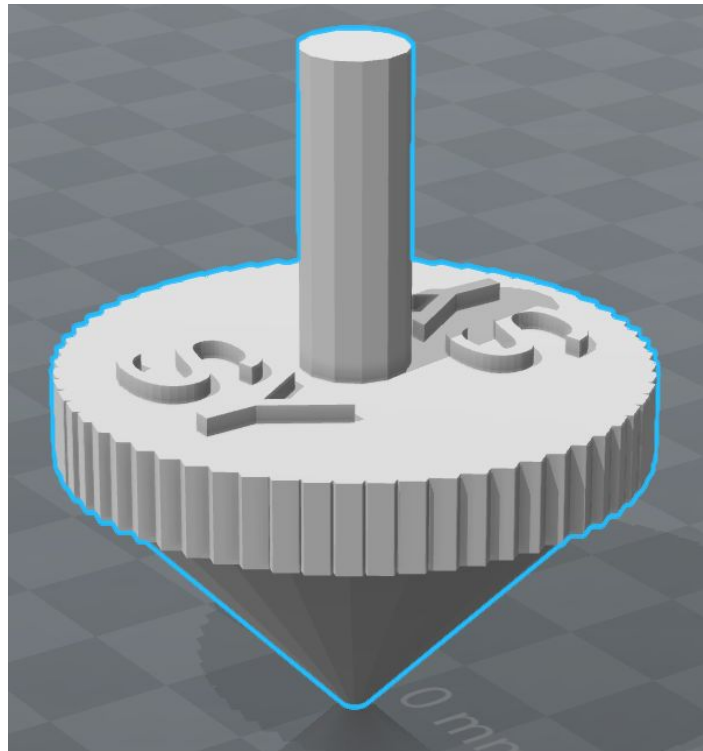


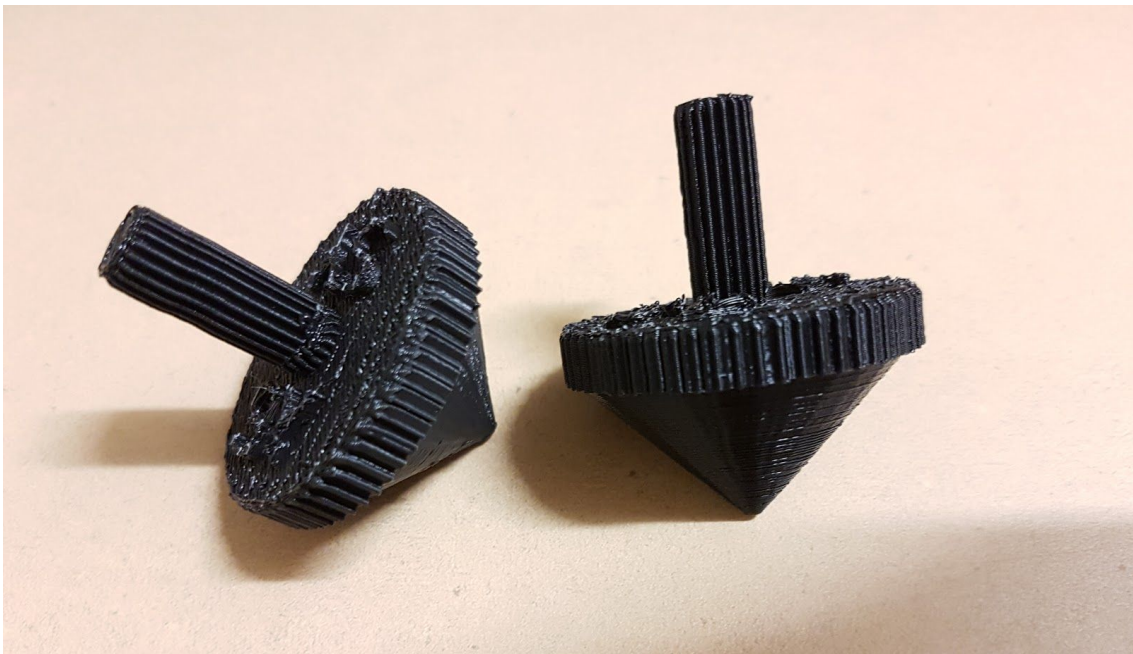
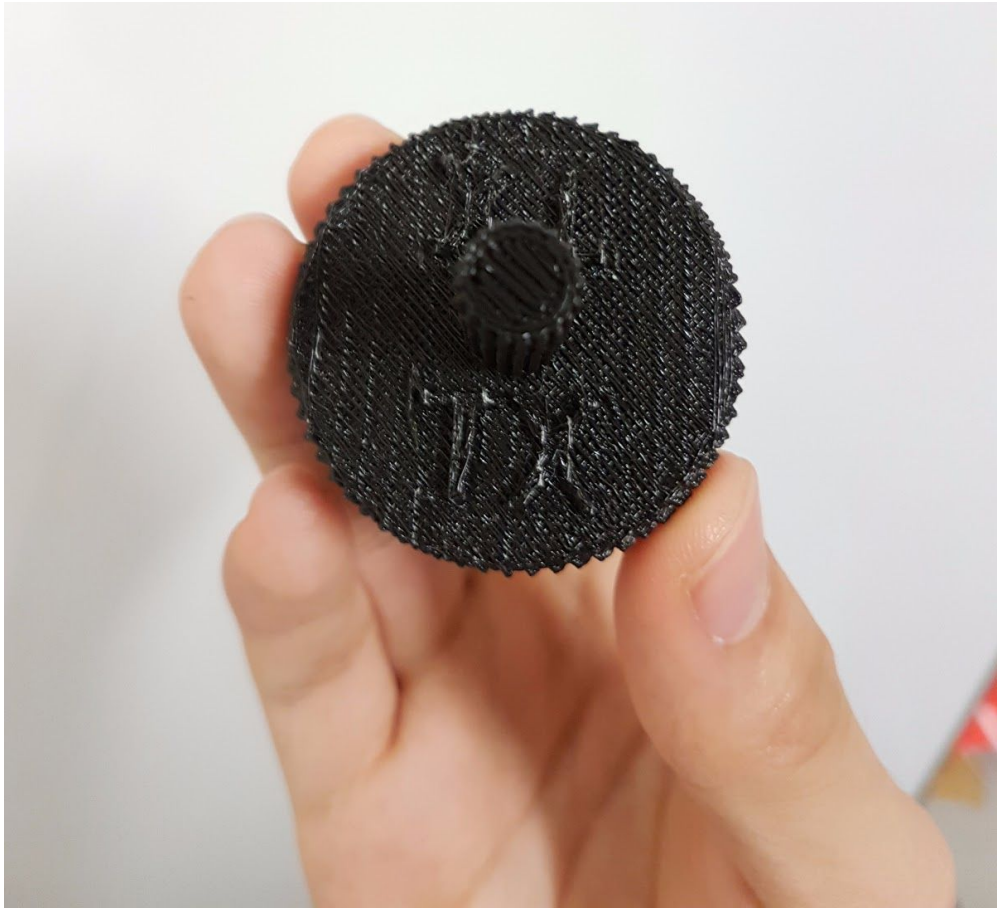
Earphone Holder





Spinning Top





Scanned Objects



