

RobBob - The 2 DOF Robot Head



JBVCreative

[VIEW IN BROWSER](#)

updated 28. 3. 2022 | published 28. 3. 2022

Summary

RobBob is a 2 degree of freedom robot head that is powered by bevel gears!

[Hobby & Makers](#) > [RC & Robotics](#)

Tags: [toy](#) [robot](#) [engineering](#) [robotics](#)

RobBob is a 2 degree of freedom robot head that is powered by bevel gears! Spin one knob and robBob's head turns. Turn the knobs together and robBob will tilt his head up and down.

You can add some servo motors and an arduino board to give RobBob some life!

[This video](#) show the engineering process behind RobBob

The files are available for both the mechanical version as well as the servo powered version. You can find info on how to make the servo version work [here](#)

Recommended print settings:

Layer Height: 0.2mm









Nozzle: 0.4mm

Infill: 15-18%

Print Time: ~6.5hours

Filament Use: ~100g

Model files

	Servo Parts	11 files
	head.stl	
	pre-layout-servo-version.stl	
	shaft.stl	
	servo-interface-shaft-side.stl	
	base-servo-version.stl	
	bevel-gears.stl	
	c-clamps.stl	



u-bracket.stl



shaft-mounts.stl



servo-interface-bracket-side.stl



servo-brackets.stl



Mechanical Version

10 files



bevel-gears.stl



c-clamps.stl



u-bracket.stl



end-knob-bracket-side.stl



shaft-mounts.stl



pre-layout-mechanical-version.stl



head.stl



end-knob-shaft-side.stl

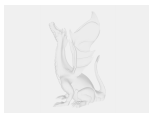


shaft.stl



base-mechanical-version.stl

Other files



print-and-assembly-instructions.txt

License ©

This work is licensed under a
[Creative Commons \(4.0 International License\)](https://creativecommons.org/licenses/by-nc/4.0/)



Attribution-NonCommercial

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition