

My Balsa & Glass Workshop

Levitating Death Star Lamp

3D Print/Assembly Description

5 October 2026

Continuing with my print/build of Christmas 2026 gifts, I decided to try my hand at something my oldest son Kent would like. Being the die hard Star Wars lover he is (he even has a Death Star Christmas tree topper), I thought I would see what I could find to add to his collection. After searching the web for an hour, I found just what I was looking for on Printables.com. There I located a model by Jéjé l'ingé called the "**Levitating Death Star Lamp**" shown in the images below. This model only requires **five** .STL files to print/build the model. These can be downloaded **free** from the Printables webpage (<https://www.printables.com/model/1186331-levitating-death-star-lamp>), and the Thingiverse webpage (<https://www.thingiverse.com/thing:6942383>). *Simple to make but has a nice effect!*



Source of Images: Printables.com

Defy gravity with this Death Star that will light your way to the far reaches of the universe. As you can probably tell from the images above, there is more to this model than just the 3D printed parts. You will also need some electronic parts, which can be ordered directly from the models' designer on his webpage @: <https://jeje-linge.fr/products/lampe-etoile-de-la-mort>. His kit contains a levitation platform + magnet, a 12v power supply, and the induction LED with transmitter and receiver, all for \$113.



I was able to find the same items on Amazon using the following two links:

levitation platform + magnet + 12v power supply - <https://www.amazon.com/ESTODAL-Magnetic-Levitation-Machine-Load-Bearing/dp/B0DYV6GDT1/> for \$42

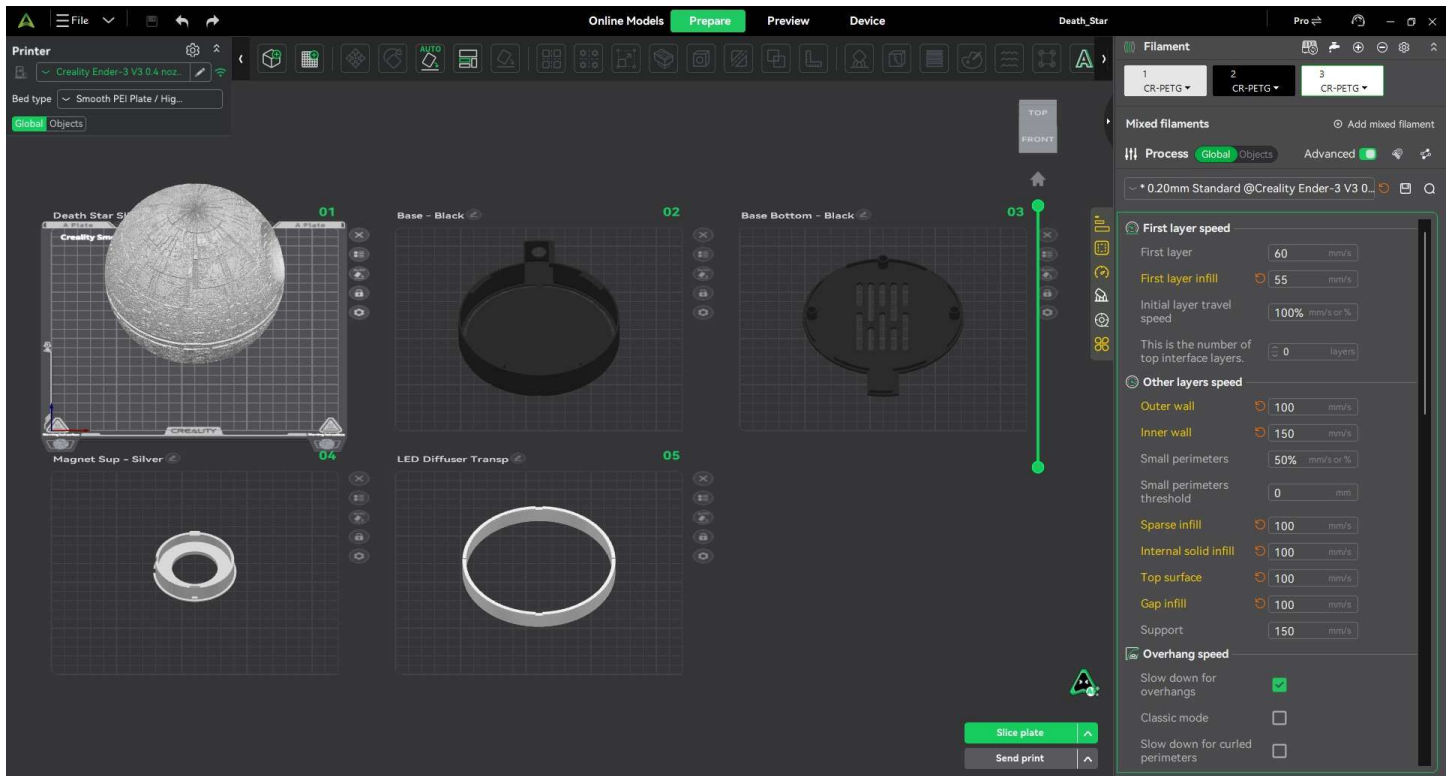
induction LED with transmitter and receiver - https://www.amazon.com/gp/product/B09LTZZ3KV/ref=ox_sc_act_title_1?smid=ALNX3VB3FYR0J&psc=1 for \$11

"Levitating Death Star Lamp" 3D Printing

I ordered the electronics needed for my project from Amazon and then pressed on with the preparations for 3D printing. Using Creality Print 7.2, I set up a Project file with the build plates needed to print each of the five parts. After reviewing comments made by prior model builders, I established my **"initial slicer profile"** using a 0.4mm nozzle, 0.2mm layer height, 0.42mm layer width, two wall loops using a "Classic" wall generator with Inner/Outer walls printing order, three top & bottom shell layers, 15% Rectangular sparse infill pattern, at a 100mm/s print speed, two Skirt loops to purge the nozzle, Supports enabled for plate #4, and Brims as needed. ***One of the prior model builders recommended using Rafts for the lamp (Death Star on plate #1) because the part to build plate surface is very thin.*** I also thought I may have to print the Death Star using a single wall to help with light transmission. More on that later.

As shown in the next image below, my Death Star Project .3mf file has five plates each with a single STL part using three separate colors (Silver, Black, Transparent). ***I increased the Death Star and***

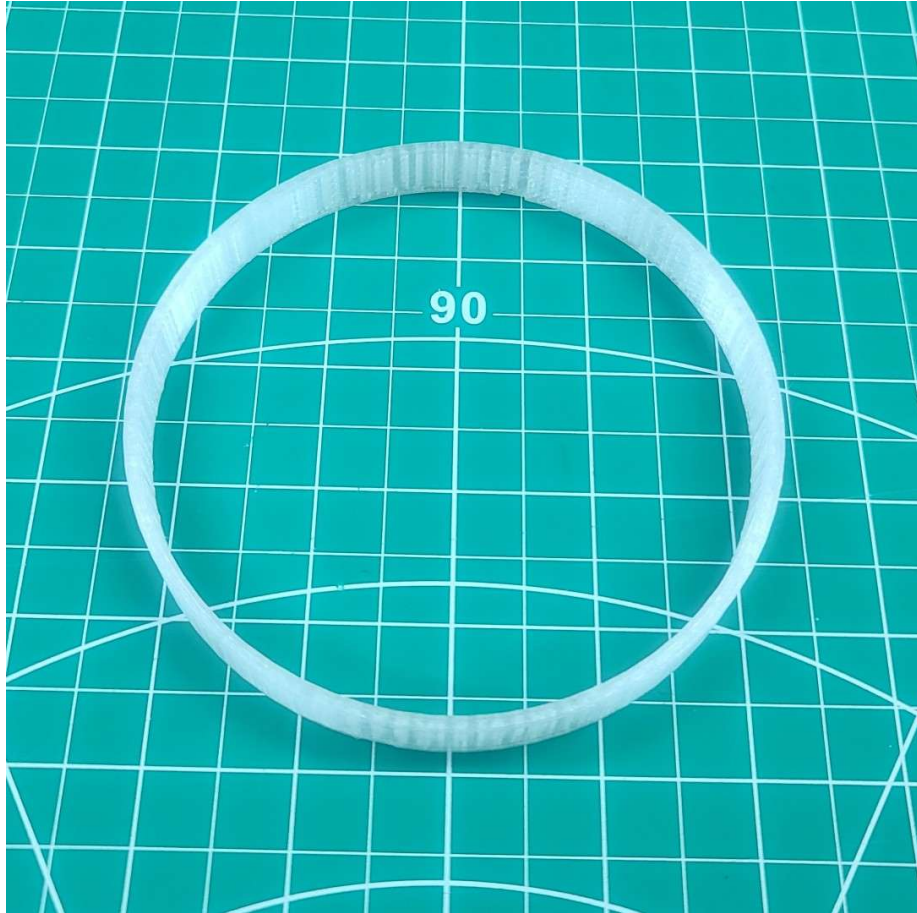
Magnet Sport STL parts by 110% which gave me a 138mm diameter Death Star. Just a note - the Death Star STL file on plate #one contains over one million triangles to obtain the nice surface details. This drives MANY computer computations to generate the resulting Gcode file needed by my Ender-3 V3 printer.



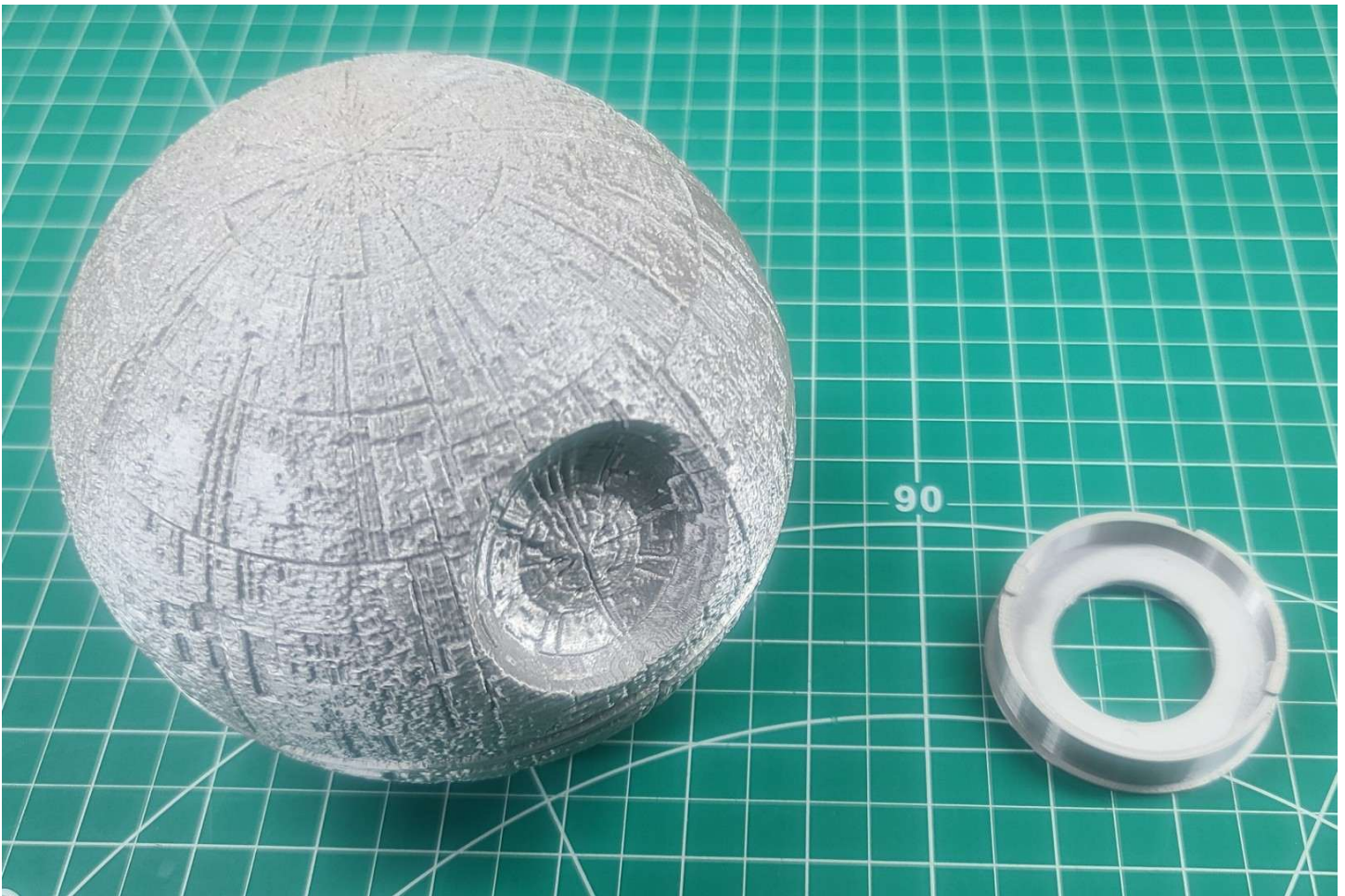
I figured I would start with the simple prints first, so I loaded my filament dryer with a spool of **Black** Creality CR-PETG and set out to print plate #s two and three, the Base parts. These two parts in the next image below required a total of 2 hrs. 4 mins. printing time and 54 grams of **Black** filament.



Next up was plate #5, the LED Diffuser, using **Transparent** Creality CR-PETG filament. This part shown below took 28 mins. and 12 grams of **Transparent** filament.



Now for the **Silver** colored parts on plate #'s one and four, the Magnet Support and Death Star, using **Silver** Giantarm Silk-PLA. Because I was using Silk-PLA, I had to modify the print parameters to the following values: a 0.4mm nozzle, 0.2mm layer height, **0.32mm layer width**, two wall loops using a "Classic" wall generator with Inner/Outer walls printing order, three top & bottom shell layers, **5%** Rectangular sparse infill pattern, at a **50mm/s print speed**, and a single layer RAFT enabled. After a total time of 14 hrs. 21 mins. and 109 grams of **Silver** Silk-PLA filament, I had the last two parts shown below.



"Levitating Death Star Lamp" Assembly

With all the parts printed it was time to put this little project together. As I indicated earlier I ordered the electronics as listed from Amazon. With everything needed in hand, I watched the Death Star Assembly Video (<https://www.youtube.com/watch?v=hM040y08NqY>) and followed the designers' instructions. Using my little soldering iron, I first attached the induction LED transmitter to the levitation platform and then mounted the assembly to the Base part. This was followed by attaching the induction LED and receiver to the levitation magnet and then mounted these inside the Magnet Support part. I then powered up the electronics and verified everything worked as advertised before putting the Magnet Support into the Death Star.

With all the assembly finished, I powered up the Base, centered the Death Star approximated three inches above the base until all LEDs in the Base outside ring where lighted, and let go. As you can see in the final image below, the Death Star levitated above the Base and then started to rotate. While the Silver Death Star can be seen when the room is dark, I may print another one in White PLA to see if that will make it brighter.

