



## Solar/Outdoor Light Stake



3DPrints4me

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### Summary

A stronger more rigid stake to use with solar lights. Fully parameterized.

[Household](#) > [Outdoor & Garden](#)

Tags: [parametric](#) [light](#) [mount](#) [outdoor](#) [solar](#) [spike](#)  
[stake](#)

Update 1/7/2024

For greater strength angle the stake at 30-45 degrees to the bed. This will require more supports but since the layers are not perpendicular to the main body it will have greater strength.

I had an issue with my new puppies that they were banging into the stakes and breaking them along the layer lines that were perpendicular to the ground.

Happy Printing!

This is to replace broken/wimpy stakes for solar lights or other outdoor fixtures that require a peg with a round insert. It is fully parameterized so you can adjust it to the needed dimensions.

I would suggest using PETG, ASA or PC. There really isn't a big worry about UV breakdown since almost the entire part will not be exposed to the sun. PLA is not recommended due to the low temperature resistance.

I used 80% infill, the strength of the stake is dependent on the infill percentage. You need to use supports in the center of the disk and around the edge of the disk. I suggest using Snug supports, organic supports had a poorer quality on the outer portion of the disk. I also printed with a brim on the inside. You do not need to remove the support material in the center of the spike.

A sample .3mf file is included for a 0.6mm nozzle.

## Model files



**solar-spike.fcstd**



**solar-spike.stl**



**solar-spike.3mf**

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