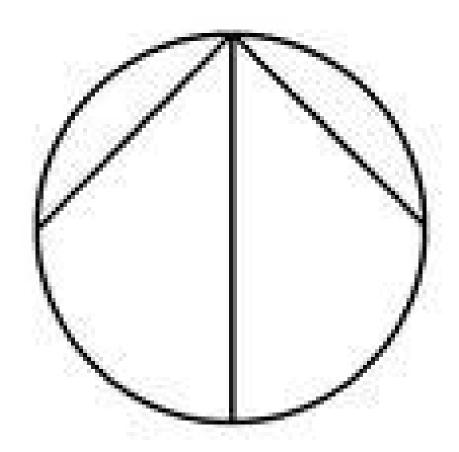
# Galatea: Robot Maid v3.0.7 Instructions



#### Introduction

Welcome to the Instructions for the Galatea Multipurpose Companion Maid Robot: v3.0.7, made by GreerTech. She's a really useful robot that can bring a lot of fun, ease, and happiness to your life.

Other Manuals;

- -Offline Al Roleplay A Guide to Simple Offline Al
- -18-Plus Addon

All files and instructions;

Galatea v3 Series

If not on there, then check the GreerTech Odysee page or Google Drive

Remember, this design is infinitely customizable. You can use whatever filament colors, wigs, AI, name, and clothes you want. There are multiple head designs to choose from. Below is the template design that I made.



#### You can help support me by word-of-mouth!

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#### Construction

#### **Materials**

Firstly, you will need a 3D printer with two rolls of filament (assuming 1.75mm 1kg rolls), super glue, hot glue, electrical tape the same color as the filament, a sanding sponge, a binder clip, 3/4 inch wide velcro (~2 feet in length), AA Batteries, and a specific robot sweeper base Robot Sweeper Base;



You can find it on Amazon, AliExpress, and Wish.com.

You can use another robot vacuum base, but you will need to find your own location to mount the base. The other base should be 30 cm or wider. The motors should be 14 volts or higher. Make sure it doesn't have lidar capabilities and has a smooth top. It should also have a remote or a remote app.

## Speaker

You will need a mini bluetooth speaker. This will allow the robot to speak and play music. You can find small bluetooth speakers on Amazon, AliExpress or Wish.

Here is the one I used;



However, there are many types of mini bluetooth speakers, all of them valid. Make sure it's small and lightweight.



## **Apparel**

My specific design uses a maid dress that you can find from AliExpress or Amazon. Get the small size. However, you can put any clothes you want, as long as it's not too heavy and not too big.

https://www.aliexpress.us/item/3256806208911460.html
https://www.amazon.com/Womens-Japanese-Cosplay-Classic-outfit/dp/B09
3D5DRVZ/

https://www.amazon.com/dp/B092VMFM4W



## Wig

Here's the wig I used. Make sure to get the "Black" color.

Amazon.com: MapofBeauty 16 Inch/40 cm Short Side Bangs Synthetic Fiber Cosplay Layered Wig (Black): Clothing, Shoes & Jewelry

The hairnet that is included is not used. You can use a different wig if you want.

#### **UV** wand

To have the sterilization feature, you will need a UV-C wand.

Amazon.com: UV-C Light Sanitizer Wand - Powerful 253nm UV Light
Rechargeable Handheld Ultraviolet Portable for Home, Office, Travel - Total
Transparency UVC Test Card Included: Health & Household

You don't need to use this exact one, however any other wand you use needs to have a grip smaller than 41 mm.

(41 mm X 41 mm box)

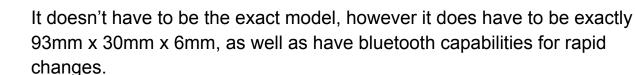
## Charger (Optional)

To charge the mini phone without having to take it off the head or Vertical Phone Holder, you need a 2-meter (6 foot) USB-to-USB C cord, with the associated USB charger. You can find one in Amazon or AliExpress, including glowing ones.

## LED Eyes (for Classic Head LED and Head LED)

For the LED Eyes, you will need an LED Name Tag. The color is up to your own preference.





If the LED badge is unavailable, you can use the Solid Eyes. To color the solid eyes, first use a highlighter to color in the eyes. Then, using a sharpie, color the rest of the surface. You will need white filament for this.

#### Mini Phone

First, you will need a specific type of phone. You can get it on Amazon or AliExpress under the search terms, "Mini smartphone", "Soyes Smartphone", or "Smartphone XS16". You can use any brand, as long as the screen is approximately 3 inches (diagonal measurement).



You can use a different design of mini phone, but your Galatea v3.0.7 will look different.

You will also need a wifi connection to access most features. A SIM card and cell connection are not necessary.

For clarity, in the rest of this instruction manual, the phone will be referred as the "mini-phone"

## **Printing**

Print with 0.8 thick walls, with lines infill. Printing was designed for a 0.4mm nozzle. Print the files at the following densities;

#### **BODY**

-Hips: 1%

-Midsection: 1%

-Chest: 1% with supports

-Backbone: 20% (x2)

#### **HEAD**

- -Anime Head: 5% with supports (use lightning infill)
- -Anime Robot Head: 5% with supports (use lightning infill)
- -Head 3.0.2: 5% with supports (use lightning infill)
- -Classic Head and Head 2.1: 0% with supports
- -Solid Eyes (for use with Head 2.1 and Classic LED head): 10% (use lightning infill)

#### **ARMS**

- -Shoulder Left: 1% -Shoulder Right: 1%
- -Arm Segments: 1% with supports (x4)
- -Wrists: 1% (x2)
- -Robot Nut and Bolt Arms 2.0: 5% (x2)
- -Insert: 20% (x4)

#### **CLAW**

-Claw Primary: 15%
-Claw Secondary: 15%

-Claw Bolt: 15% -Claw Nut: 15%

#### **LEGS**

- -Base 2.0 1% (x2)
- -Lower Calf: 5% (x2)
- -Upper Calf 3.0.7: 1% (x2)
- -Knee 3.0.7: 1% (x2)
- -Thigh 3.0.7: 1% (x2)
- -Hip Segment 3.0: 1% (x2)
- -Insert: 20% (x8)
- -AA Battery Weight: 20%

#### **ACCESSORIES**

- -Plate: 1%
- -UV Basket: 15%
- -Cat ears: 100%
- -Spider Killer: 100%
- -Backscratcher: 100%

#### SPEAKER AND PHONE ACCESSORY

- -Speaker Sled: 100%
- -Speaker Mount: 10%
- -Vertical Phone Holder: 10%

# Putting it all together

## The Body

Take one of the Backbone segments, and sand it. Then apply super glue on it, and insert it in the slot on top of the Hips. Then when the glue is dry, put glue on the other side and put the midsection on top. Then take another Backbone segment, and do the same with the midsection and the Chest.

Afterwards, use electrical tape to hold the sections together. Then sand the neck cylinder on top of the Chest, and attach the Head. Put in the speaker, facing downwards, until the switch lines up with the edge. Then wrap 5 and half rotations of electrical tape on the neck plug.



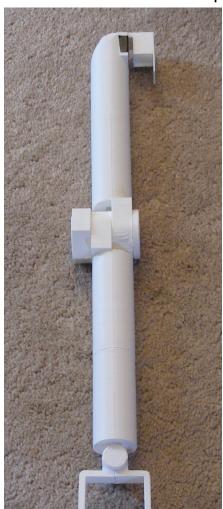
(The tape is black for clarity)

## The Arms (do the same technique for both sides)

Take one of the inserts, and sand the sides. Then insert it in the hole opposite the side with the square plug, using the notches to get it exactly halfway. Then apply superglue to the end of the shoulder segment, as well on the insert. Attach an arm segment with the bolt hole on the side of the plug, on the side facing where the body should be. Use the same technique with another Arm Segment and a Wrist Segment.

After you have those two pieces, then sand and push the bolt through both the shoulder half and the lower half, with the bolt head facing where the body should be. Then use the Nut to hold the arm in place.

Put a layer of electrical tape on the outer side of the arm plug, and in between the arm and the plug, around the arm, then put another layer.



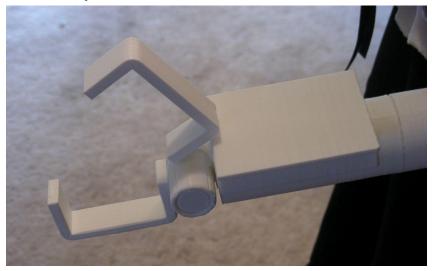
Her right arm. Ignore the claw for now

#### The Claws

For the left claw (her right), sand down the peg on the Primary Claw, then glue it in the slot, facing inward. Then insert the Claw Bolt downward, super gluing it into the slot. After it is dry, interlock the Secondary Claw, and use the Claw Nut.



For the right claw (her left), sand down the peg on the Primary Claw, then glue it in the slot, facing downward. Then insert the Claw Bolt, with the bolt head facing outward, super gluing it into the slot. After it is dry, interlock the Secondary Claw, and use the Claw Nut.



Then superglue the wrist Speaker Mount on the wrist.

## Phone Holder and Speaker Holder

Glue two strips of velcro to the Phone Holder with the rough side outward.



For the speaker, glue it outwards on the Speaker Sled, making sure any buttons and charging ports aren't covered/blocked. Use a liberal amount of hot glue.

The sled should be able to slide on and off the holder, but stay in place when the arm is raised.

## The Legs (do the same technique for both sides)

Take two of the Leg Segments, and sand the upper 1/2 of the surface until it's smooth. Then, with the smooth part facing outward, connect the pieces using the inserts. Follow this order:

#### Lower Calf - Upper Calf - Knee - Thigh - Hip Segment

When constructing each leg, do one step at a time, letting the glue dry before doing the next step.

Ex. First glue the peg into the Lower Calf, then let it dry. Afterward, then glue the upper calf.

Wrap electrical tape around the seams where the segments connect

To make Galatea v3.0.7 sit, remove the torso, then remove the legs. Then place the secondary pegs on the sides of the Hip Cylinders into the Hip slots. You *may* need to lightly sand down the secondary pegs.

#### The Base

Using a ruler, measure out 70 mm from the back edge of the robot, and mark it down. Use features on the front to center the base. Then, put super glue on the bottom of the base, taking extra care to make sure the base is centered and facing forward. After it is dry, use a liberal amount of hot glue to attach the base to the vacuum all around the edges, but not on the outside of the cylinders where the legs go.

If you are using a different robot base, put the base near the rear of the robot, at a distance of (7/30 or 0.2333) times the robot diameter. With the standard base, that would be 70 mm from the rear, as shown in the picture.





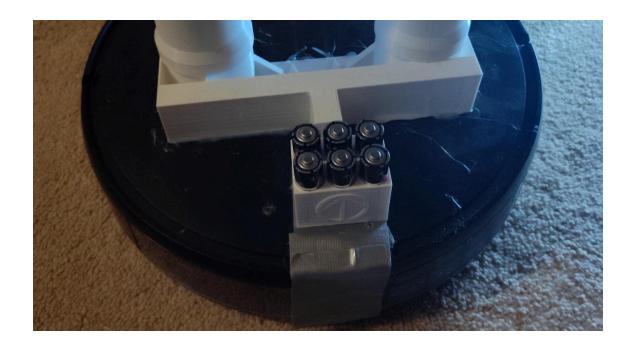
(Note: This next section is for the robot vacuum design mentioned before. If your robot vacuum design tips backward on soft ground (like carpet) when fully assembled, put the weight on the front.)

On the seam where the lid meets the edge, place a folded-up piece of tape. Then, put a strip of duct tape on the length from the back of the base to the edge. This will make sure the lid stays shut.

#### (pic on next page)

Then glue the AA Battery Counterweight behind the base. Make sure it is full of batteries. Afterward, make another strip of duct tape and connect it to the top of the "lump" to the bottom (without touching the ground), with the end folded up for easy removal and closing. Make sure to pull it tight when sealing it shut. If the glue wears down, replace this strip.

(If your robot vacuum doesn't have a top lid,the duct tape latch is unnecessary.)



If your robot base has spinning brushes, and it tends to lean forward on soft ground (like carpet), then you can put the spinning brushes on the mounts.

## Mini Phone Eyes (Head 3.0.2)

To put in the Mini Phone as the eyes, spread some super glue on the back surface, letting the glue dry completely. Then hot glue velcro strips on the back of the phone with the soft side facing outward, making sure to not cover the camera or go over the edge. Make sure the corners are also glued down.

Then place the opposite strips of velcro on top of the strips attached to the phone. Using the phone as a guide, attach the opposite strips to the middle of the space on the head (*next page*). When placing the opposite strips on the head, make sure the power button on the phone is facing upward.





Make sure the velcro is securely attached.



To design the eyes, open up Microsoft Paint or any other computer art software/site, and set the canvas to the resolution of the phone (ie  $854 \times 480$  pixels).

When placing and removing the phone, use caution and gentle care. Use the head as leverage. To make sure the eyes stay on, make sure the sleep mode is set to 30 minutes, with no password.

## Solid Eyes

Use a colored marker/sharpie/highlighter to draw in the eyes portion, (optional) then use a black marker/sharpie to color in the rest.

#### Anime Head/Anime Robot Head

Use a fine-point marker/sharpie to color in the eyes.

## LED Eyes

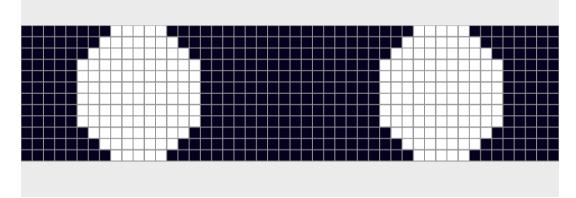
To put in the LED Eyes, first take the magnets off and any stickers. Then use electrical tape folded in on itself to attach it on both sides.



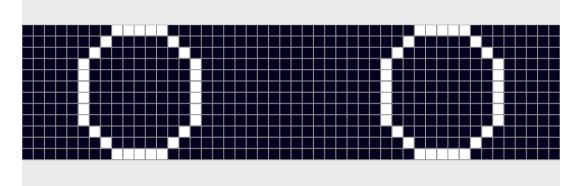
To control the eyes, install the app on either the mini-phone accessory or your personal phone.

To make the eye design, follow these patterns on the next page. Of course, you can make your own patterns.

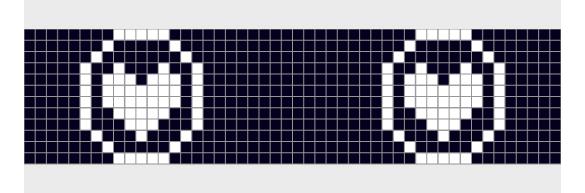
#### Normal:



#### Hollow:



#### Heart:



#### Local Al

There are three ways you can use Local AI with Galatea.

- -Use AI software on your PC, and link it to the speaker.
- -Install an AI app on a moderate/high spec smartphone (typically \$100 or more).
- -Set-up a local AI on a Raspberry Pi (for developers)

For further information, see "Offline AI Roleplay - A Guide to Simple Offline AI". You can use multiple characters.

Please note that a local AI means that your chat will be permanently lost if the device is lost or destroyed. On Backyard AI, it is recommended to export your chats often and save them on a cloud storage site, like Google Docs.

## **Final Assembly**

Put the maid uniform on the body. Use a binder clip to hold the excess material in the back. You can discard the apron and other accessories, you only need the dress and a single band (headband optional). Use one of the bands as a belt. Then, put on the wig

Put the arms in the sockets. You can adjust them with the nut, making sure not to over-tighten.

Then place the legs in the respective sockets in the base. Then place the body on the hip cylinders carefully.

If any of the accessories are too tight to fit in the claws, sand them down.

Congratulations, your Maid Robot v3.0.7 is now completed. Enjoy! To transport or clean out the vacuum, just remove the body. When driving it with the body on top, only use manual mode. When driving it, make sure not to do any quick movements to make sure it doesn't tip. Practice driving it to get the "feel" of it. If you have bumps or slight level changes in your house, help assist her in not falling down. To charge it, just slide the charger under the front of the vacuum.

# Gallery



Finished product.

#### **Functions and Uses**

(Those marked with a \* are AI functions. See the Offline AI Guide for more information.)

Sweeping

Vacuuming

Mopping

#### Sterilization

Put a UV wand in the UV basket, and turn on the UV wand. Use this to sterilize surfaces like countertops, as well as clothes and items. Galatea can't get tired, so you can sterilize fully for several minutes. CAUTION: UV-C light should not be used on living beings.

#### **Backup Batteries**

If you have dead AA batteries, replace them with the ones in the counterweight, and place the dead ones in the slots. Remember to replace the dead counterweight ones with fresh ones.

## Holding Light Objects

The robot can hold light objects on the plate. However, it can tip easily, so only place light objects on it, such as keys, an empty shot glass, pen, spy camera, portable motion detector, etc.

#### Get Information and Advice\*

Ask Galatea a question. You can ask her for personal advice.

#### Have A Conversation\*

Talk with Galatea. She has a bubbly and helpful personality.

#### Friend\*

Galatea is your new friend!

#### Lover\*

...or maybe even more...

#### **Smart Home Controller**

If you have a smart home set-up with your phone, you can place it in the robot and speak to it like a person, so it feels more natural.

## **Motion Tripwire**

Use the vertical phone accessory with a motion detector app. To have a siren, connect the app to the bluetooth speaker and turn up the volume all the way. Or you can put the phone down somewhere else, and have Galatea in your room.

## **Security Camera**

Put the phone on the vertical phone accessory, and have the back face outward. Download a security camera app. Use the aforementioned optional long cable for prolonged use.

#### **Entertainment**

Impress your friends with an advanced robot kit, or have it stand still and let Galatea entertain others.

#### Backscratcher

Print the backscratcher, and sand it down on the insert and on the "teeth". Place it on the arm, and detach the arm. Use as a backscratcher. You can also use the backscratcher accessory by itself.

## Play Music

You can also play music with the bluetooth speaker, or make Galatea sing! Galatea is your own personal musical performer. The speaker is also removable, so you can take it on the go!

## Virtual Babysitting/Petsitting

Install a video call app, such as Signal. Make an account with the Google Voice number. Place the phone on the face, and make a video call between the phone and your phone.\* Alternatively, you can have a babysitter/petsitter be supervised by a video call, and check it occasionally. The babysitter/petsitter won't know when you're watching. Use a charger for prolonged use.

\*This method is suitable for children 12+. Make sure they have a phone to text you and call emergency services. For pets, ensure they have all the supplies they need and bathroom access.

#### **Dictation Machine**

Record audio to write down later. Or you can record notes

#### Hear Poetry\*

Ask Galatea to write a poem about a subject.

## Creative Inspiration\*

Ask Galatea for creative inspiration.

## Roleplay\*

Using custom AI prompts, you can roleplay with Galatea. With ASMR audios, she can act as an avatar for the ASMR character.

## Cooling

Place a small fan on the plate. For further flexibility of use, you can glue the fan to another Plate, so you can have the fan at an angle.

## Hug

You can hug Galatea! Just have one arm up, and lightly hug her. Hugging is scientifically proven to improve mental health and reduce stress.

## Headpat

You can headpat Galatea! It's very cute.

## Backup Alarm

Put an alarm on the mini-phone. Make sure it has enough power to last the night. The experience will be like someone waking you up, rather than a faceless alarm clock. You can also put a wake up asmr audio.

## Killing Poisonous Spiders

Take off her left arm. Place the spider killer accessory in the claw. Fold a piece of duct tape on itself, so that it covers the front surface. Use the arm to smash the spider, including up high on the wall and even some ceilings.

#### **Translator**

Download Google Translate on the mini-phone, and use the conversation feature. Connect to the bluetooth speaker to boost the volume. Alternatively, you can connect your own personal phone to her bluetooth speaker. Caution: Translations may be slightly inaccurate.

## Backup Survival Guide

Install an offline survival guide. A good one can be found here; <a href="mailto:ligi/SurvivalManual">ligi/SurvivalManual</a>: Libre Survival Manual for Android with offline in mind

## Couples Advisor

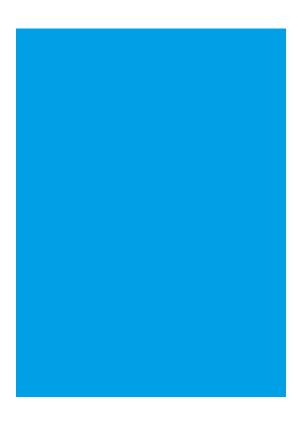
Use the Couples Advisor prompt from the Offline Al Manual. Have you and your partner sitting side by side with her opposite of you and them.

## **Directional Light**

Activate the light on the phone, and put the holder accessory in her right hand, where the flashlight points outward.

#### Wakefulness Generator

Put a picture of pure light blue on the mini phone, and put it on the phone holder accessory or on the head. The blue light keeps you awake. You can screenshot the blue on the next page, and crop it to get the blue image.



# Safety

- -Make sure small pets and children aren't on the floor when the robot is moving around.
- -Make sure not to place objects on the plate that make the robot tip and spill the object.
- -Don't put an object on the plate while it's moving
- -Lower the arms when moving around
- -Make sure the battery counterweight is full
- -Use only manual mode when the body is on top
- -Disassemble the robot when transporting it.
- -Disassemble the robot before cleaning the internal dustbin or any other internal components.
- -Galatea v3.0.7 is not a toy.
- -(Head 3.0.2) Put a small piece of electrical tape with a small folded tab on the front camera
- -(Optional) Log out of your accounts when you're done using the apps
- -Inspect periodically for flaws
- -Use common sense!

## LEGAL DISCLAIMER

I AM NOT RESPONSIBLE FOR ANY INJURY, PSYCHOLOGICAL DAMAGE, AND/OR DEATH CAUSED BY THE CONSTRUCTION AND/OR USAGE OF THE DEVICE DESCRIBED IN THIS MANUAL.

I AM NOT RESPONSIBLE FOR ANY CRIME COMMITTED BY THE CONSTRUCTION, POSSESSION, OR USAGE OF THE DEVICE DESCRIBED IN THIS MANUAL.