You must perform this procedure manually for now

Make sure you have already run "full_initial_configuration.sh" with no errors and all IDs are set up and services have never been started (or you will have to delete the .homeassistant folder before continuing)

Before Going to Homes

1. You have to run Home Assistant at least once manually before copying the configuration file, see the below terminal commands for how to do it
   a. cd ~/ha
   b. source bin/activate
   c. hass
2. Now that Home Assistant has initialized you have to open localhost:8123 in the browser and follow the setup with the instructions below
   a. While you are setting it up, it might refresh or reset the page once, just refill it
   b. It also might freeze for a while, just be patient or refresh if it takes too long
   c. Choose the name (username should autofill to be the same as name) and password (I chose them to be the same as the Jetson's)
   d. Name the installation the same as the username
   e. If you are not at a family's home, click Detect to set the metrics and move the location pin away from Baylor
   f. Do not select anything to share (this should already be the default so just press Next)
   g. Ignore the devices and click Finish
3. Now we have to make sure that the native Bluetooth module is configured
   a. Click Settings on the bottom left
   b. Click Devices & Services
   c. If the native Bluetooth module is not already configured, click Configure to do it
4. Ignore all other devices and disable the default ones if you wish (Weather, Radio, etc.) as they might fill up the log with errors when the Wi-Fi is off

<u>At Homes</u>

1. Make sure that the smart plug is detected
   a. Click Settings on the bottom left
   b. Click Devices & Services
   c. Look for "Plug Mini YYYY SwitchBot" where YYYY is an alphanumeric ID
   d. If the smart plug does not show up, try pressing the button on its side to make sure it's turned on (there should be a white LED light visible)
   e. Note the four character ID of the smart plug, make sure you know which plug and location it corresponds to, do not mix them up
2. Click Configure and set up the smart plug
   a. Set the area to whatever matches, you can name a new area if necessary
3. Now make sure that the power data is coming in
   a. Click the "History" tab on the middle left
   b. Click "Choose entity"
   c. Select something that looks like "Plug Mini YYYY Power"
   d. If the data is coming in as expected, continue, otherwise troubleshoot
4. Stop Home Assistant (if the service is running, "sudo systemctl stop homeassistant-run-on-boot.service" or Ctrl-C if it's running manually)
5. Open "configuration.yaml" in the "~/flash-tv-scripts/install_scripts" folder
   a. Look for the line where it says 'sensor.plug_mini_YYYY_power' and replace YYYY with a *lowercase version* of the four character ID you noted earlier
   b. Save the file and copy and paste it into the "~/.homeassistant" folder (enable show hidden files if not visible) to overwrite the original
6. Start the Home Assistant service ("sudo systemctl start homeassistant-run-on-boot.service") and make sure there are no relevant errors
7. Look for and open "123XXX_tv_power_5s.csv" in "~/data/123XXX_data" to make sure the .csv log is being written
8. Turn off the internet and make sure the Home Assistant service is still running

Changing Families/Plugs and Reusing the Device

1. Make sure that all data from Home Assistant is copied and saved in multiple ways (.csv in "~/data/123XXX_data folder", .csv from addon, .db from "~/.homeassistant" folder, etc.)
    a. Make sure the FLASH-TV data ("~/data" folder) is copied and saved as well just case
    b. It's easiest to just save all of "~/data" and "~/.homeassistant"
2. Make sure that the Home Assistant service is stopped ("sudo systemctl stop homeassistant-run-on-boot.service")
3. Delete the "~/flash-tv-scripts" folder (this is to reset all the IDs), the "~/.homeassistant" folder, and the .csv file in the "~/data/123XXX_data folder" (or the entire data folder if necessary)
4. Reclone the flash-tv-scripts folder from GitHub
5. Run "family_change.sh" if you haven't already
6. Redo the first two sections from the beginning while making sure the Home Assistant service is disabled