

piRover Builds with K2

Enabling Python App at Startup

Rev 1.2

Overview:

Recall that at the beginning of the course you were required to make configuration changes to disable the Yahboom Bluetooth code from running at startup. This action was required to prevent this code from running in the background and conflicting with your GPIO coding.

This document provides the configuration changes required to reactivate this startup feature but modifies the script file so that your smartphone code is run at startup rather than the original Yahboom code.

Prerequisites:

Prior to beginning the instruction provided in this lesson you must have completed the following:

1. P03 Part 2

Performance Outcomes:

1. Run piRover phone application at startup

Resources:

1. None

Materials:

1. piRover

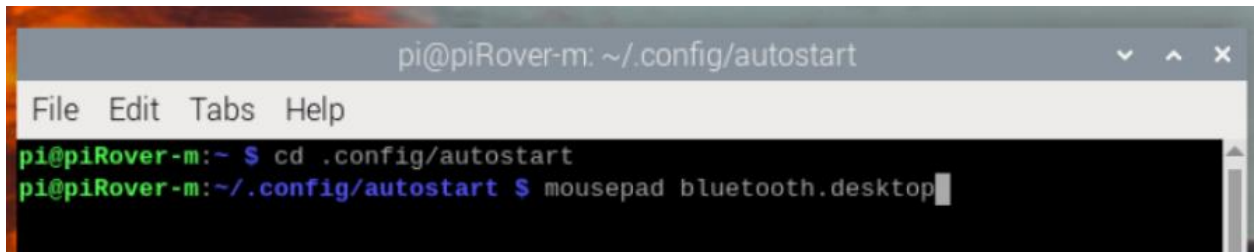
Directions

1. With your system connected via the VNC Viewer, open a terminal window.
2. Enter the following commands to edit the **bluetooth.desktop** configuration file.

```
cd .config/autostart
```

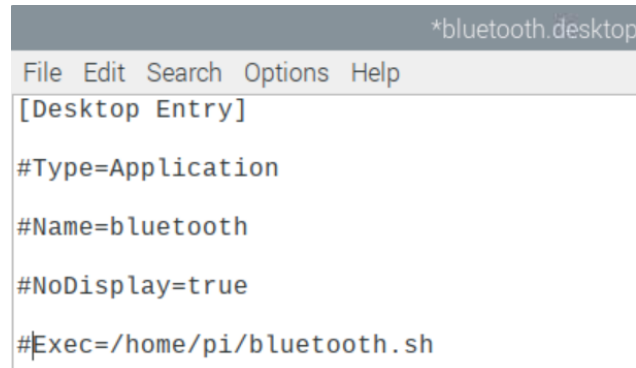
```
mousepad bluetooth.desktop
```

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```
pi@piRover-m: ~/.config/autostart
File Edit Tabs Help
pi@piRover-m:~ $ cd ~/.config/autostart
pi@piRover-m:~/.config/autostart $ mousepad bluetooth.desktop
```

3. The leafpad editor will display showing the contents of the **bluetooth.desktop** configuration file.



```
*bluetooth.desktop
File Edit Search Options Help
[Desktop Entry]

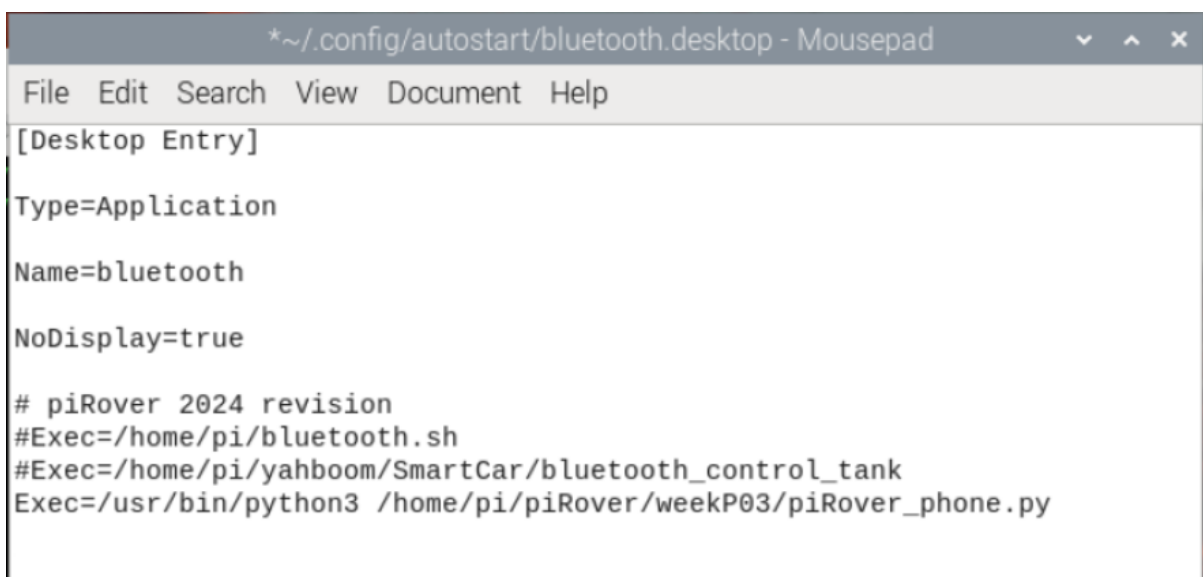
#Type=Application

#Name=bluetooth

#NoDisplay=true

#Exec=/home/pi/bluetooth.sh
```

4. Note the hash # symbols at the start of each line. You added these earlier to “comments out” the lines so that the Yahboom Bluetooth application was disabled at startup.
5. Remove the hash symbol from each line except the last Exec lines. Add a new Exec line as shown below that includes the path to python3, a space, and the path to your piRover_phone.py file. Save the file, reboot, and test.



```
*~/.config/autostart/bluetooth.desktop - Mousepad
File Edit Search View Document Help
[Desktop Entry]

Type=Application

Name=bluetooth

NoDisplay=true

# piRover 2024 revision
#Exec=/home/pi/bluetooth.sh
#Exec=/home/pi/yahboom/SmartCar/bluetooth_control_tank
Exec=/usr/bin/python3 /home/pi/piRover/weekP03/piRover_phone.py
```