

Initial Raspberry pi setup steps:

Hardware used:

- HDMI cable
- Monitor
- USB keyboard
- USB mouse
- USB camera
- 2.5A Power Supply
- Raspberry Pi 3B+

1) Install Operating System on Raspberry pie

- a) Insert SD Card
- b) Download Raspberry Pie Imager

Link:

<https://www.raspberrypi.org/software/>

Pick Raspberry Pi OS (32-bit) for Raspberry Pi 3B+

- 2) Plug in hardware (leave Power Supply for last), insert SD Card, turn on by connecting power supply.
- 3) Follow instructions for updating and restarting Raspberry pie if its your first time setting up your Raspberry Pi

Initial Arduino setup steps:

Will need Micro Usb to Usb 2.0

- 1) Install Arduino Desktop IDE
- 2) Install Drivers for Arduino NANO 33 BLE Sense
- 3) Test by running Blink example:
 - a) File → examples → 01.Basics → Blink
- 4) Before Uploading Program/Running:
 - a) Select board type and port (step 1 instructions describe how to install the necessary packages for board type and port)
 - b) Click the arrow icon to Run program
 - c) Confirm blinking LED in Arduino board

More detailed steps and necessary links here:

<https://www.arduino.cc/en/Guide/NANO33BLESense>

To install Arduino IDE in Raspberry Pie:

```
sudo apt-get update && sudo apt-get upgrade  
sudo apt-get install arduino
```