**Installing Raspbian OS on a MicroSD Card**

This document outlines the process of installing the Raspbian OS on a microSD card for use in Raspberry Pi applications

Bill of Materials:

* Personal Computer with standard web browser (1)
  + A USB-A port is helpful (if one is not available, a USB-A to a port of your choice adaptor will be needed)
* MicroSD card (1)
* SD card adaptor (1)
  + Must be able to connect microSD to SD
* SD card reader to USB-A (1)
* Raspberry Pi (1)

**On your personal computer:**

1. Navigate to Raspberry Pi’s Software page (<https://www.raspberrypi.com/software/>)

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**Figure 1:** Software landing page (photo taken in 2025)

1. Download the imager that matches the personal computer’s operating system (Windows, Mac, etc)
2. Open the imager
   1. The personal computer’s OS may create warning. If this occurs, read it and allow the imager to open
   2. See Figure X for running imager

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**Figure 2:** The Raspberry Pi Imager (macOS)

1. Select the appropriate device

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**Figure 3:** Device selection window

1. Select desired operating system

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**Figure 4:** OS Selection Menu

1. Select microSD card for writing
   1. **WARNING:** You will overwrite the entire microSD card in the imaging process

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**Figure 5:** Storage menu

1. Begin imaging
   1. This could take about an hour

**Once imaging is completed and verified:**

1. Eject the SD card writer
2. Remove the microSD card
3. Insert microSD card into the Raspberry Pi
4. Plug in peripherals (keyboard, mouse, monitor, etc)
5. Power the Raspberry Pi

**Once the Raspberry Pi is powered on:**

1. Fill out location settings
2. Create your user account
3. Connect to WiFi
4. Choose a preferred web browser
5. The system will prompt an update check. Allow this procedure
6. Allow the Raspberry Pi to restart
7. Upon restarting, the Raspberry Pi should have the desired OS and be ready for use