**Raspberry Pi Lab**

Intro:

The Raspberry Pi is a series of small single-board computers developed in the United Kingdom by the Raspberry Pi Foundation to promote the teaching of basic computer science in schools and in developing countries.

The original model became far more popular than anticipated, selling outside of its target market for uses such as robotics.

According to the Raspberry Pi Foundation, over 5 million Raspberry Pis have been sold before February 2015, making it the best-selling British computer. By November 2016 they had sold 11 million units, reaching 12.5m in March 2017, making it the third best-selling "general purpose computer" ever.

For more power you may want to try the Tinkerboard computer that is compatible with the Raspberry Pi but much faster and has twice the ram ( 2Mb ).

Body:

(1) The Raspberry Pi boots of a flash drive mounted on the underside of the board. You will need to remove one if present and mount it in the provided programming device.

(2) Acquire the newest Raspberry Pi Image. You may have to uncompress the image. It should have an extension of either iso or img

(3) Download the Flash Drive formater from my web page and while you are there you can also download the Windows ImageWriter.

(4) Remove all partitioning on the Flash Drive with the Flash Drive formater.

( 5) install the Raspberry Pi image to the Flash Drive using the Windows ImageWriter

(6) Install the now programed Flash Drive into the Raspberry Pi computer.

(7) Connect all necessary cables to the Pi and power on the Computer.

(8) Follow instructions on the screen.

(9) Make a user called user1 with a password of Electronics.

( 10) Install Filezilla using the software package manager included with linux.

(11) Shut down the computer and return it with all cables etc. to the instructor.