Instructor: R Wolfe



CARLISLE HIGH SCHOOL - HU-RASPBERRY PI: SECTION 1

1.1 Pi-4 Components

QUESTION 1



3

2

Radio which includes WiFi to connect to computer networks and Bluetooth to connect to other devices

4

RAM (random access memory) which holds data you are working on only while the Pi is turned on

5 **USB controller** which runs the four USB ports

6

PMIC (power management integrated circuit) which converts power coming in through the micro USB port into the power the Pi needs to run

7

Network controller which handles the Pi's Ethernet network port

8

USB 2.0 (Universal Serial Bus) ports which let you connect peripherals at a signaling rate of up to 480 megabits per second

9

USB 3.0 (Universal Serial Bus) ports which let you connect peripherals at a signaling rate of up to 5 gigabits per second

10

Network port, also known as an Ethernet port) lets you connect to a wired computer network using a cable

11

AV jack (3.5 mm audio-visual jack) which lets you connect headphones, speakers, and video displays that support a composite video signal

12

CSI (Camera Serial Interface) which lets you connect the Raspberry Pi Camera Module to the Pi

13

Main micro-HDMI port (High Definition Multimedia Interface) to connect to a monitor, TV, or projector **Secondary micro-HDMI port** (High Definition Multimedia Interface) to connect to a second display device

15

USB Type-C power port which connects the Pi to a power source

16

DSI (Display Serial Interface) which is a display connector used with touch activated displays

17

microSD card connector which reads the external memory card containing all the files you save, software you install, and the operating system

18

POE Header (power over Ethernet) used to power HATS which extend the capability of the Pi for various sensors and peripherals