**Raspberry Pi 4 – Power Modification Instructions**

Ubuntu Server 20.04.3 LTS 64-Bit

- Disable the power LED, activity LED, ethernet port LEDs, Bluetooth LED, and WiFi LED.
    1. Navigate to the root directory of the Ubuntu boot device.
    2. Place the following text in a new line inside of the "**usercfg.txt**" file:
        **#Disable the PWR LED**
        **dtparam=pwr_led_trigger=none**
        **dtparam=pwr_led_activelow=off**
        **#Disable the Activity LED**
        **dtparam=act_led_trigger=none**
        **dtparam=act_led_activelow=off**
        **#turn off ethernet port LEDs**
        **dtparam=eth_led0=4**
        **dtparam=eth_led1=4**
        **#Disable Bluetooth and WiFi**
        **dtoverlay=disable-bt**
        **dtoverlay=disable-wifi**
- Turn off USB ports.
    - Type the following command: "**echo '1-1' |sudo tee /sys/bus/usb/drivers/usb/unbind**".
- Change performance governor.
    1. Modify the following file using the desired editor:
        "**/sys/devices/system/cpu/cpu0/cpufreq/scaling_governor**".
    2. Select the desired performance governor by replacing the first line in the file with the following options: **powersave** or **performance**.