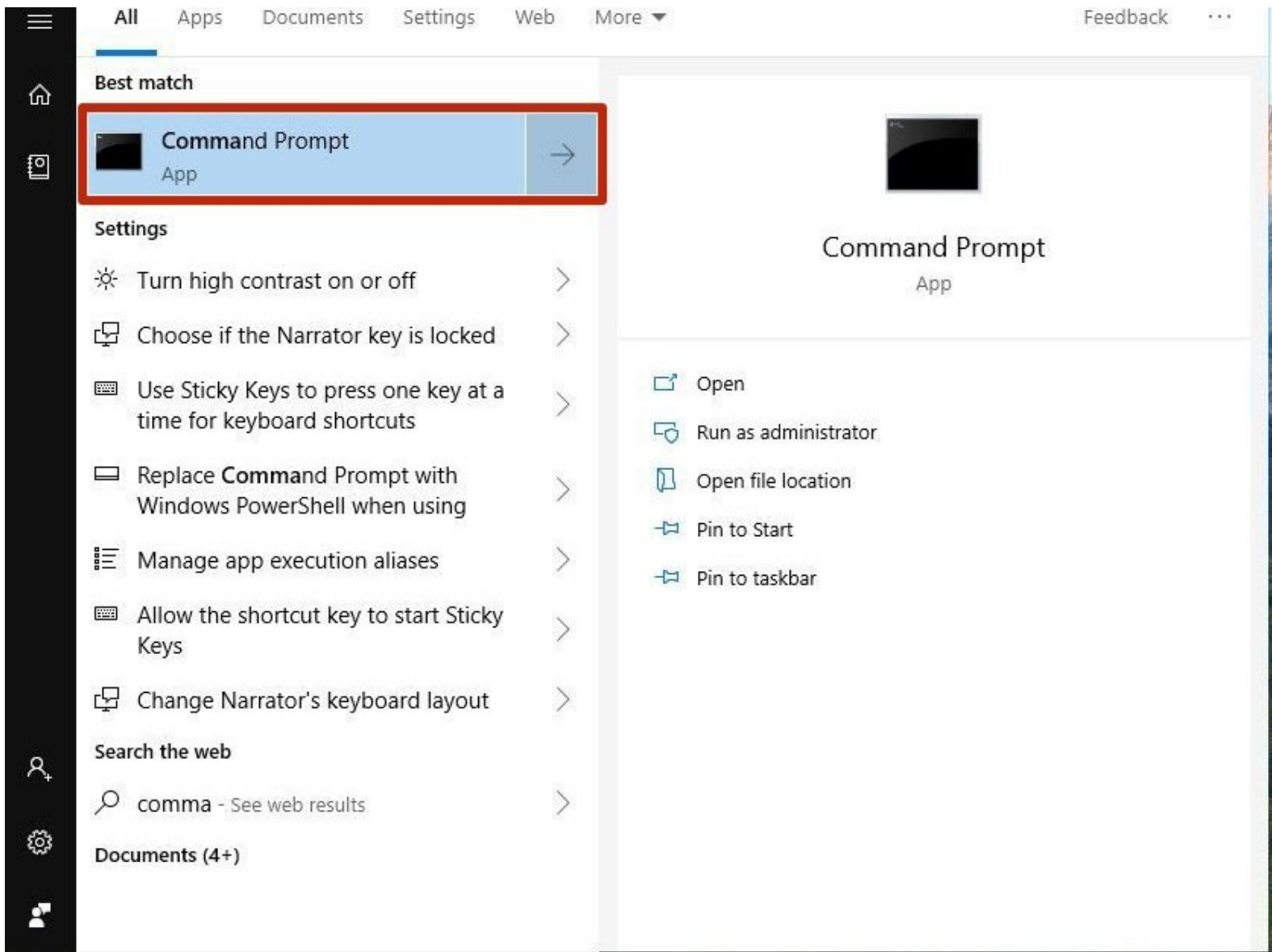# 2. Connecting your Duet to a Network - Ethernet

This Guide will provide the steps in Connecting your Duet by Ethernet directly to your Computer

Written By: Robert

INTRODUCTION

Please read before proceeding to avoid damaging the controller and voiding your warranty

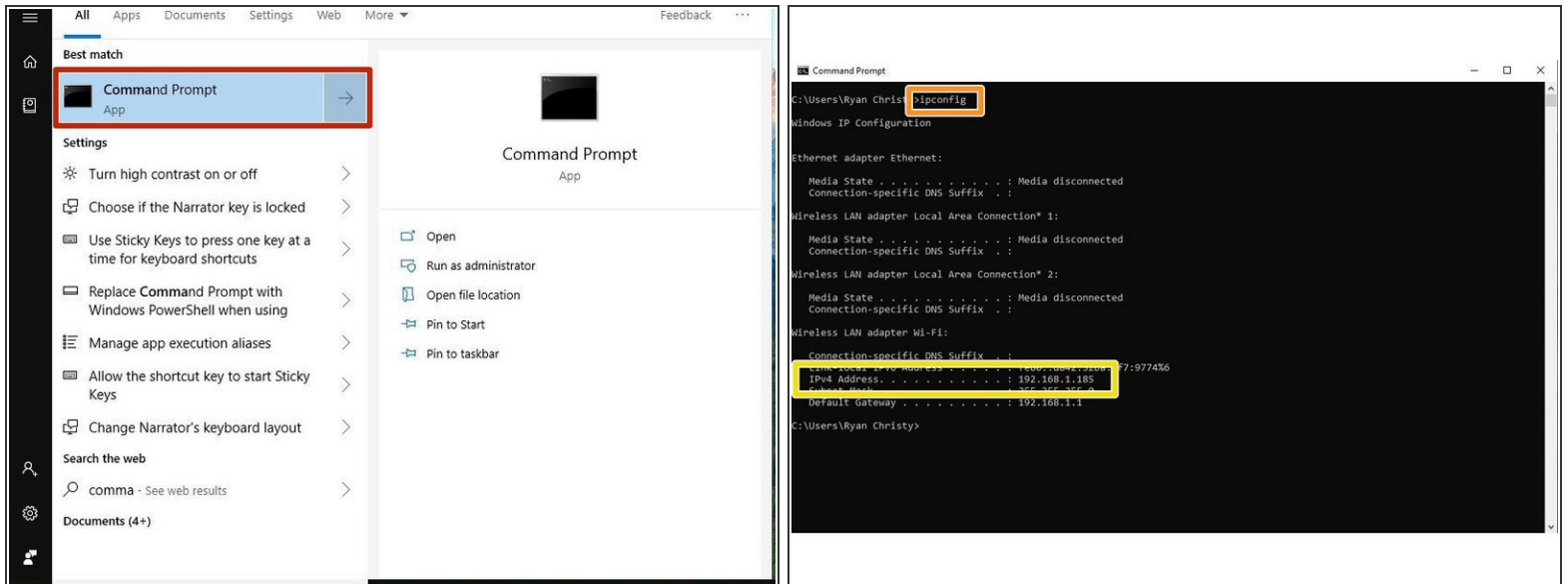Do not have the USB cable connected at the same time as the Mains Power.

Do not connect the WorkBee to a computer via USB when you don't need to. The Duet has either an Ethernet or WiFi connection, so USB is generally used only when debugging and initially commissioning the controller. All CNC Operations including uploading G-Code files can be done via the web interface.

Do not connect the Duet via USB to a laptop running off mains power.

Other devices powered from the mains may create ground transients. These will flow through the USB cable and may cause the Duet to reset or perform abnormally.
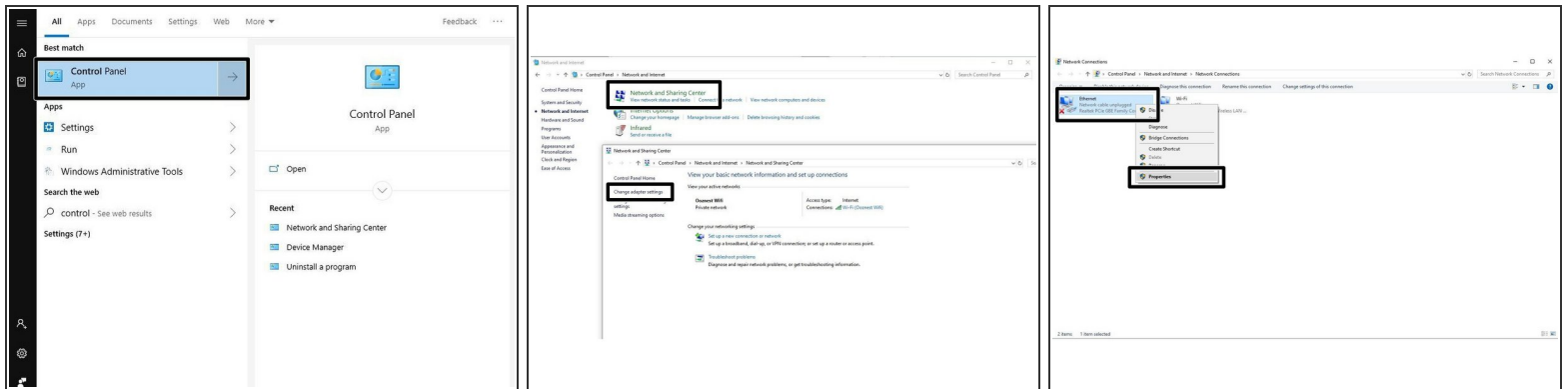
At no point should you press the reset button on your Controller as this can potentially erase the firmware and require your controller to be sent back for testing.

This document was generated on 2024-04-11 06:40:14 PM (MST).
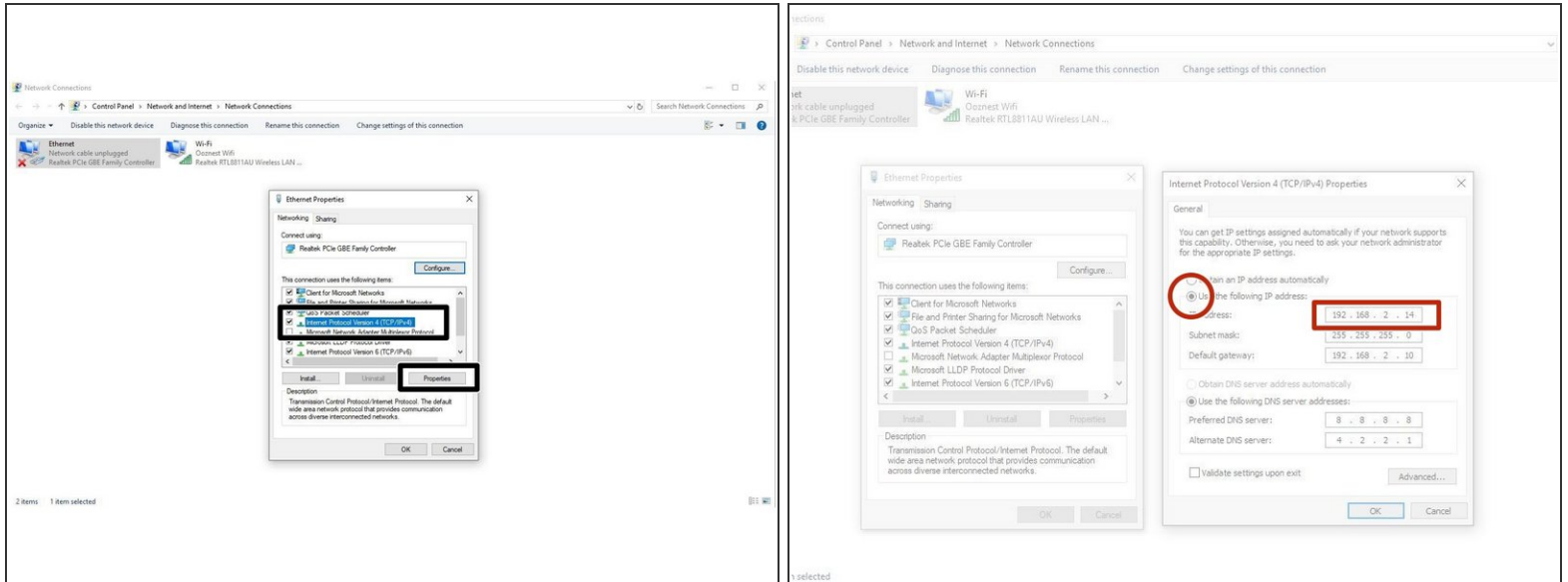
Step 1 — Command Prompt

ⓘ This step only has to been done if your computer is also connected to an external Wifi Network.

● Open Command Prompt on your Computer.

● In Command Prompt type *ipconfig*

● Under the Wireless LAN Adapter make note of IPv4 Address.

ⓘ The Duets ip Address will need to be on a different Subnet - for example if your adaptor is "192.168.1.10" our Etherent Adpator for the Duet needs to be "192.168.2.10

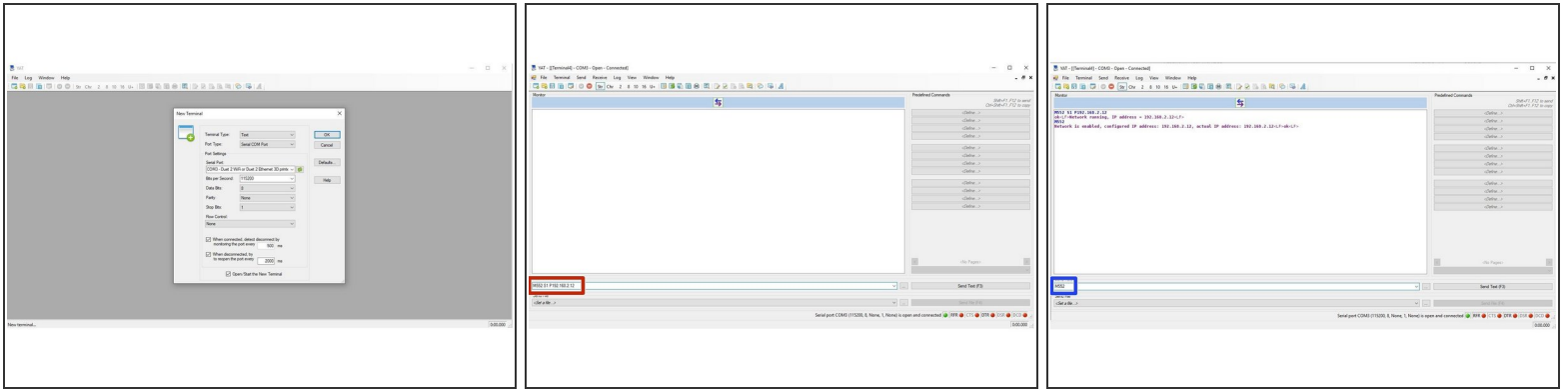## Step 2 — Configure Ethernet Port

- Open Control Panel on your computer.

  - Access the Network and Sharing centre.

  - Click Change Adaptor Settings.

  - Right Click on the Ethernet Port to Edit the properties of that Device.
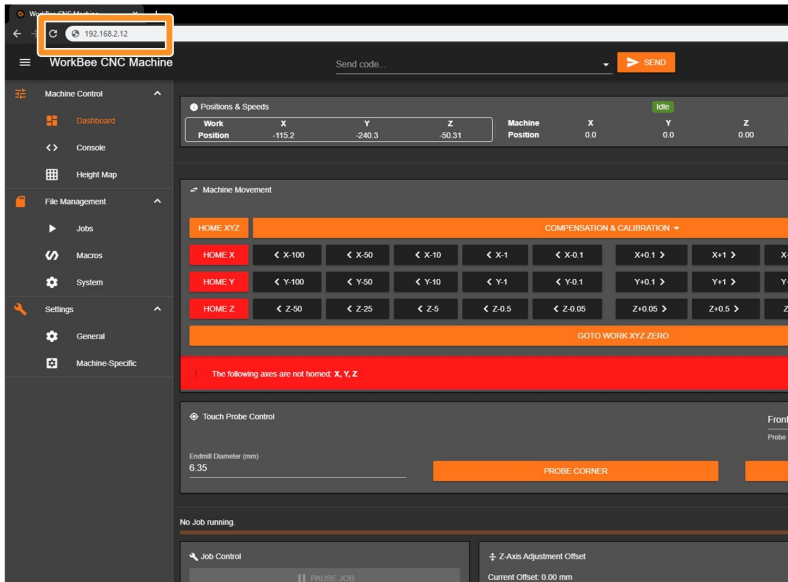
Step 3 — Configure Ethernet Port Part 2

- Click on the heading -> Internet Protocol Version 4 and access its properties.

- Click -> Use the following IP address:

- Create an IP Adress that reflects the Subnet discovered previously in the Command Prompt -> ipconfig.
  - ⓘ You can use the example shown, please ensure you place it on a different Subnet, .2 or .1

- ⚠ The Subnet Mask will auto generate, It is not required to set a default gateway.

Step 4 — Enable Network Module

- First, check the status of the Ethernet Module by sending command "M552" to Duet.
  - ⓘ If Duet returns Wifi or Ethernet module is disabled, put it into idle mode it by sending command "M552 S0". If it returns Wifi or Ethernet module is idle, proceed to the next step.

- Send the Command M552 S1 P *-ipadress*
  - ⓘ We have sent M552 S1 P192.168.2.12

  - ⚠ The final number of this IP address has to be different from the final number of the IP used on the ethernet port configuration. We used 192.168.2.14 on our ethernet port, so have used 192.168.2.12 on the Duet.

- Send M552 to confirm the Network is enabled and connected to the correct IP Address.

Step 5 — Open Duet Webcontrol

- Open your browser and type the IP address assigned to the Duet. We have used 192.168.2.12 as an example.

- You should now see the main control page for the Duet!

- ⓘ Remember to Bookmark the Website and add it to your favourites for easier future access.

Thanks for following the guide. Any issues, please contact us!

This document was generated on 2024-04-11 06:40:14 PM (MST).

© 2024   learn.ooznest.co.uk/   Page 7 of 7