# Electra Instructions

## Step 0: Prep

Open electra\_ISRU folder on Desktop and right click folder 🡪 Git Bash Here…  
Run **git pull** to check for recent updates.  
Read this: <https://github.com/redrobotics/redboard>

## Step 1: Hotspot Setup

**Make sure your network is set up as below BEFORE turning on the Rover.**  
SSID = ElectraAP  
PSK = GroundStation  
subnet = 192.168.43.X 🡨 FYI: Need 43 for non-rooted android phones, some iPhones use 10

To check the connection from laptop to isru pi:  
 **ping 192.168.43.70**

To check the connection from laptop to rover pi:  
 **ping 192.168.43.71**

If you receive a reply, go to step 2.

### If you need to make changes:

To change this if required, edit the WiFi information on each pi SD card by creating a new file called **wpa\_supplicant.conf** and entering your details in the following format:

country=gb

update\_config=1

ctrl\_interface=/var/run/wpa\_supplicant

network={

ssid="MyNetworkSSID"

psk="Pa55w0rd1234"

}

To change the static IP PERMANENTLY (for eg. If using iPhone, router or network on a different subnet), ssh in and edit the IP addresses in the file in **/etc/dhcpcd.conf**. Then run **sudo systemctl daemon-reload** followed by **sudo systemctl restart dhcpcd**. (You will need to use the corresponding password provided on the password sheet)

To change the static IP TEMPORARILY, you can use **sudo ip addr change dev wlan0 <ip address here>** and then **sudo ip route add default via <gateway ip>**

## Step 2: