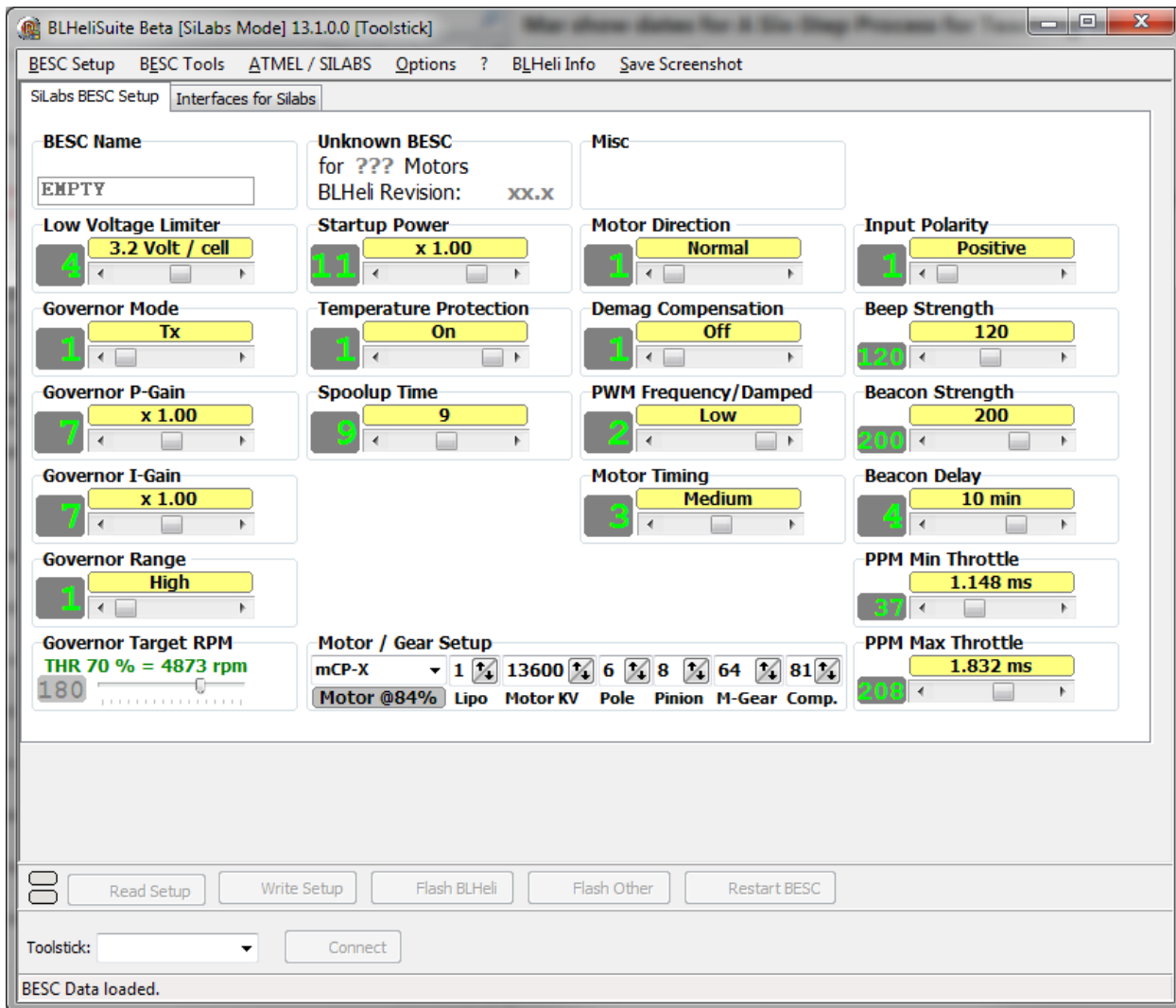


# Flashing BLHeli 13.1 to SN20A ESCs

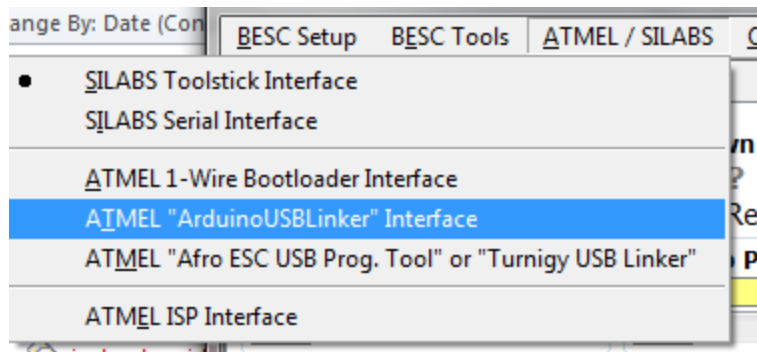
**Step 1:** Download BLHeliSuite from: <http://www.helifreak.com/blog.php?b=2162> Extract the zip file using your favorite decompression software (7Zip is my favorite).

**Step 2:** Run BLHeliSuite.exe from inside the extracted folder. It should look like this:

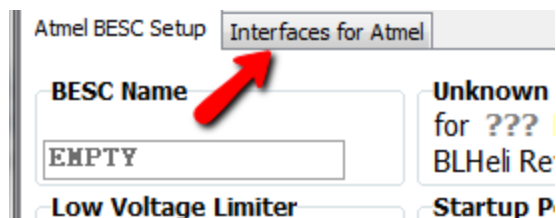


**Step 3:** Plugin your Arduino or Turnigy/Afro USB Linker to your computer via USB, and wait for it to install any drivers if necessary.

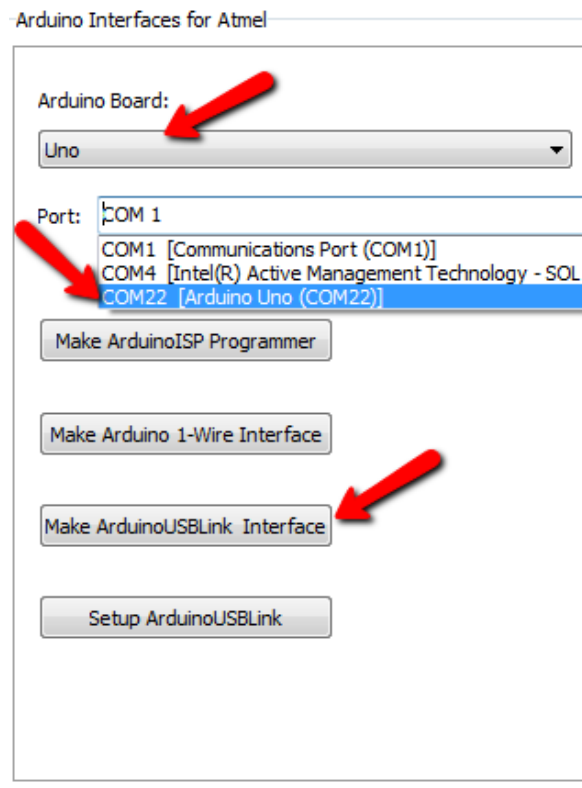
**Step 4:** Click ATMEL/SILABS in the menu and choose “ATMEL “ArduinoUSBLinker” Interface” from the list if you are using an Arduino, or “ATMEL “Afro ESC USB Prog Tool” or “Turnigy USB Linker”” if you are using on of those.



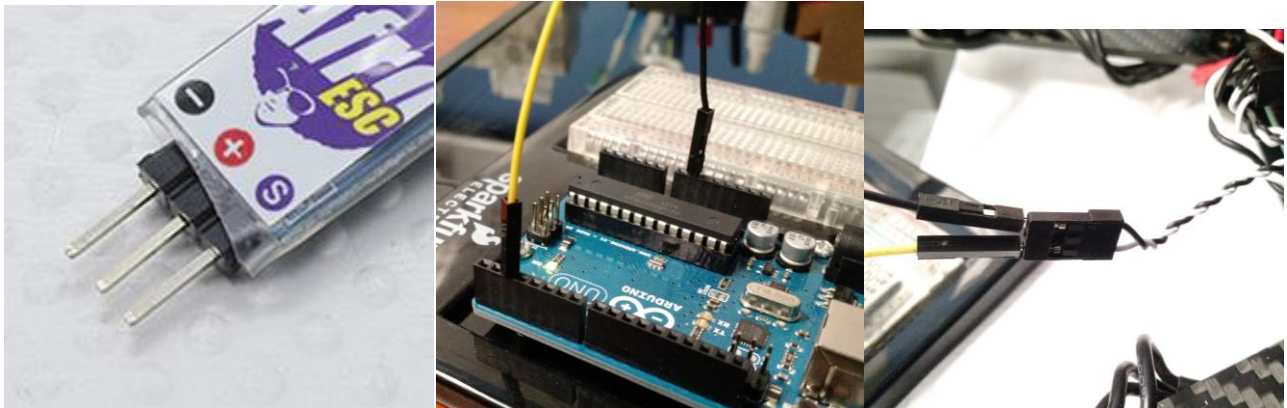
**Step 5:** If you are using an Arduino, click the “Interfaces for Atmel” tab, otherwise skip to **Step 6**



**Step 5:** Select your Arduino model from the dropdown list under “Arduino Interfaces for Atmel”. Select the correct COM port, and then click the “Make ArduinoUSBLink Interface” button.



**Step 6:** Connect your device to the signal lead on your ESC. For the Afro/Turnigy USB Linkers just plug the lead in following the pin markings on the device. If you're using the Arduino connect from Pin 2 to signal and ground to ground

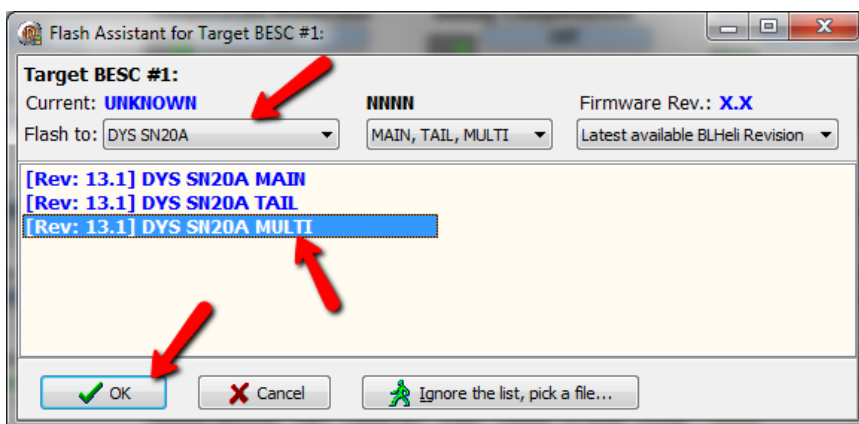


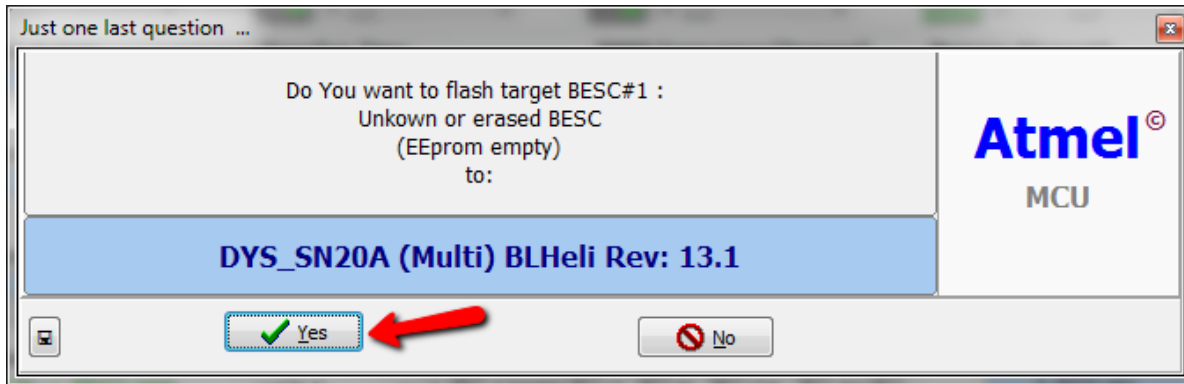
**Step 7:** Apply power to your ESC. Make sure you've connected antennas to all your transmitting devices (VTX and receivers with telemetry) or you risk damaging the radio. *Don't do this until now! If you apply power before you connect your programmer, the ESC will boot all the way and skip the bootloader!*

**Step 8:** Switch back to the "Atmel BESC Setup" tab and click "Connect" at the bottom. Then click "Flash BLHeli"



**Step 9:** Select the "DYS SN20A" from the dropdown list, then click "[Rev: 13.1] DYS SN20A MULTI" then click "OK", then click "Yes" on the next screen. *NOTE: If you are flashing SN20A ESCs simply select the correct ESC from the dropdown list.*





### **SUCCESS!**

*That's it! BLHeli should be on your ESC! Now you may change settings. Follow the same procedure in **Step 6 and 7** above to connect to the ESC, but use the "Read Setup" and "Write Setup" buttons.*

*Here are my settings for these ESCs for the RCX H2206 1950KV motors with HQ 5x4.5 propellers.*

