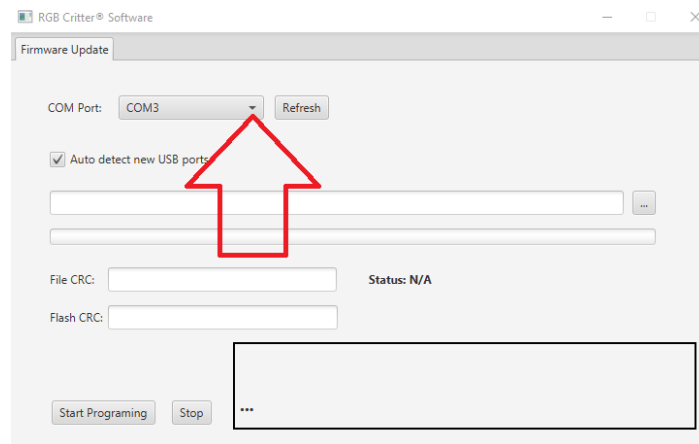# RGB Critter 2.0 Firmware Update Instructions
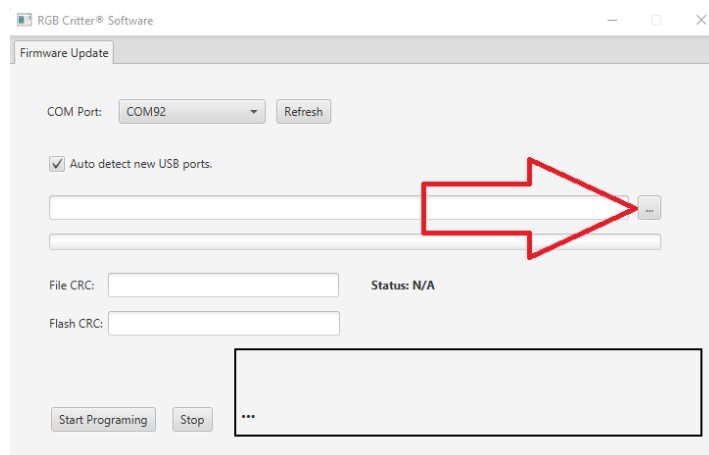
Pre-requisites:

1. Micro USB Cable (included with RGB Critter 2.0 Flashlight)
2. Firmware .bin file (RGB_CRITTER_2.0.bin)
3. RGB Critter Software
4. Install Java to your PC from this website: https://www.java.com/en/download/manual.jsp
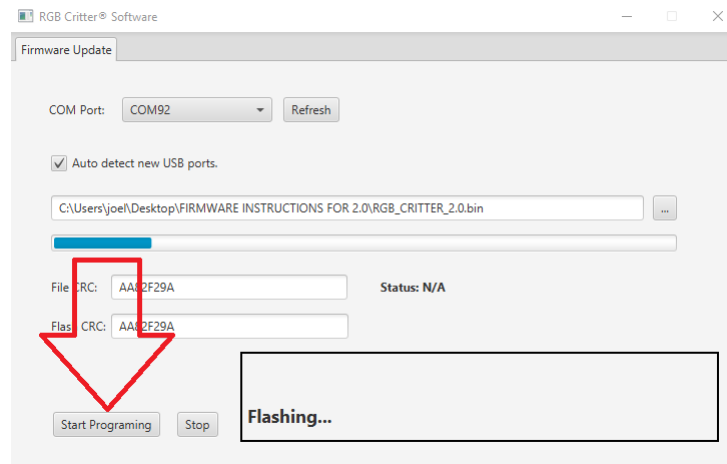
Procedure:

1. Plug the USB cable into the RGB Critter 2.0 and your PC (must be Windows OS). A USB serial interface will be detected (the computer will make a noise to indicate your RGB Critter 2.0 is connected).
2. Run the RGB Critter Firmware Update Software.
3. From the drop-down menu, select the port corresponding to the RGB Critter 2.0. If you see multiple ports and you are not sure which one is the RGB Critter 2.0, temporarily unplug the RGB Critter 2.0, press the "**Refresh"** button, and take note of the port that disappeared. Now plug the RGB Critter 2.0 back in and press "**Refresh"** again to see the new port.
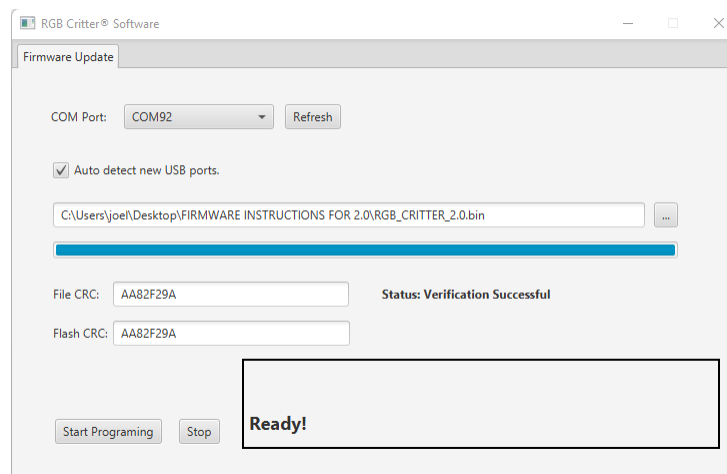

4. In the first textbox, enter the full path to the provided .bin firmware file. You can use the "…" button to browse for it or enter the path manually.

5. Press the "**Start Programming**" button. This will perform a number of steps to flash the RGB Critter 2.0 with the provided firmware.

6. When ready, you will see the progress bar complete and show a "**Ready!**" message. Your RGB Critter 2.0's button LEDs will blink 5x to confirm the successful firmware update.

7. If your PC isn't recognizing your RGB Critter 2.0, try the following:

    1. Remove the battery.
    2. Remove the USB cable.
    3. Press and hold the Arrow button.
    4. Plug in the USB cable.
    5. Wait 5 seconds while still holding the Arrow button, until a USB device is recognized on the PC.
    6. Release the Arrow button.
    7. Flash the firmware as usual.