Install Guide for Cleanflight and Control via MSP

Compiling Firmware

Download firmware and compile with

```
make TARGET=NAZE OPTIONS=USE_MSP_UART
```

There is also a version located cleanflight_2.1.0_NAZE.hex.

Flashing Fimware

1. Open the cleanflight configurator and go to the "Firmware Flasher" tab. This tab is before you connect to the base station.
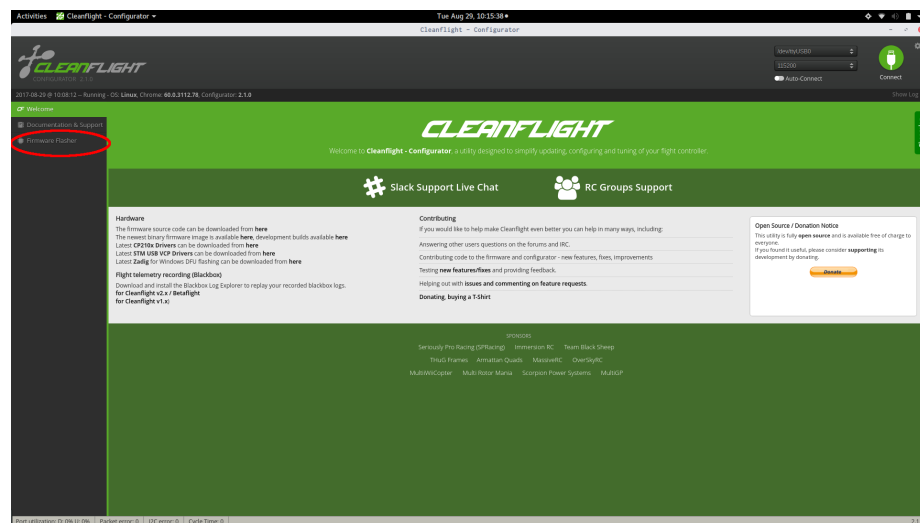

Figure 1: Firmware Flasher

2. Click "Load Firmware [local]" and load your custom firmware file from `cleanflight/obj/cleanflight_x.y.z_NAZE.hex`

3. Click the "Flash Firmware" button to flash the flight controller.

4. If this is a success, the bar at the bottom will say "Programming: SUCCESSFUL" and you are ready to move to the next step.
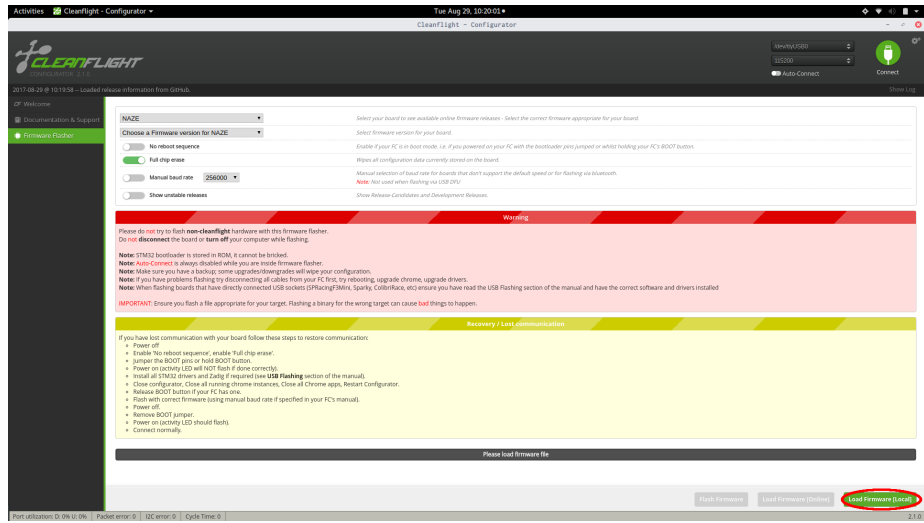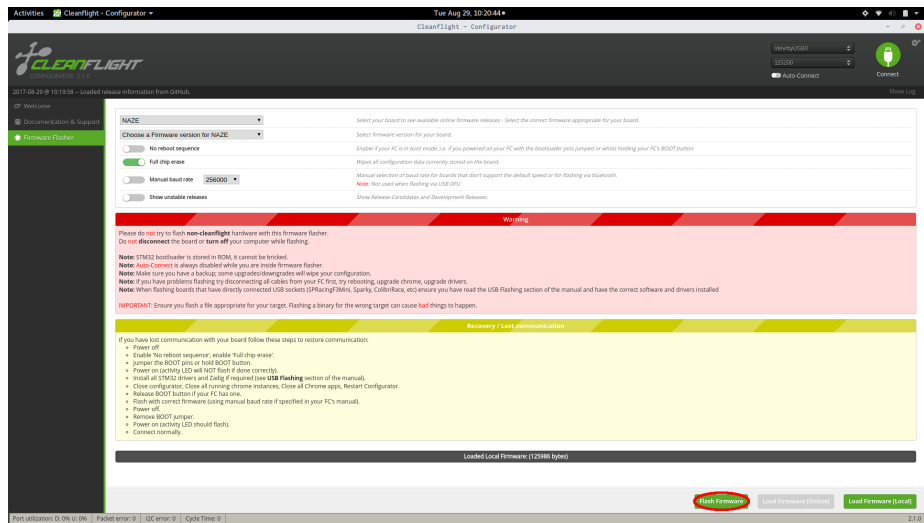
Figure 2: Load Firmware
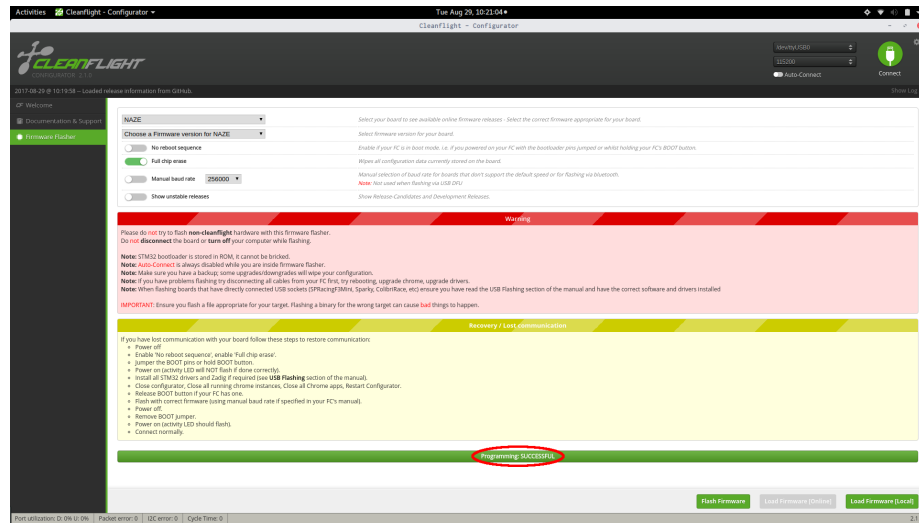

Figure 3: Flash Firmware

Figure 4: Successful Flash

Configuration Options

1. Plug in Skyline and click "Connect"

2. Go to "Ports" tab and disable SerialRX for UART2 and click "Save and Reboot"

3. Go to "Configuration" tab and flip the yaw by 180 degrees and click "Save and Reboot"

4. Also change the receiver to "MSP_RX" and click "Save and Reboot"

5. Go to the "Reveiver" tab and change the input map to "AERT1234" and click "Save"

6.

7. Plug the skyline back into the Pi and you should be set to fly!

Other Options

Throttle Angle Compensation

Go to "CLI" tab and type

set thr_corr_value = XX and set thr_corr_angle = YY

This will set it (linearly?) so that it adds XX to the throttle when at angle YY