This documents contains the steps required to set up crazyflie autonomous control using the following hardware/software:

* Crazyflie 2.0 / Antenna
* Optitrack (MoCap)
* ROS Package (<http://wiki.ros.org/crazyflie>). See instructions on the GitHub page
* VRPN Client (<https://github.com/vrpn/vrpn/wiki>). ROS interface for optitrack.
  1. Try sudo apt-get install ros-*version*-vrpn-client-ros

**Steps for optitrack data streaming:**

1. Configure your network manually, such that the ground station and the optitrack streaming pc are connected (use ping to confirm)
2. Open Optitrack software
   1. Click on *Streaming pane*
      1. *Multicast Interface IP*
      2. *Broadcast frame data*
3. In vrpn .launch file set the IP correctly to the optitrack hosting machine.

**Steps for crazyflie:**

1. Set udev permissions. Your user must be able to open the antenna driver. See <https://github.com/bitcraze/crazyflie-clients-python#setting-udev-permissions>

**Before running:**

* Calibrate the camera properly. Light changes throughout the day apparently have a great influence in estimation