

1. **Terminal 1** on Ubuntu -> roscore
2. **Command to run on the Centos 7**
  - 1.1. Turn on the computer -> choose advanced options for centos 7 -> choose second one from the top
  - 1.2. Open the terminal and run following commands in given order
    - 1.2.1. export ROS\_MASTER\_URI=http://10.1.71.79:11311
    - 1.2.2. export ROS\_IP=10.1.70.233
    - 1.2.3. rosrun nidaq Togzhan6221
2. **On the computer with Ubuntu ->**
  - 2.1. **In 1<sup>st</sup> terminal:**
    - 2.1.1. sudo -i
    - 2.1.2. source /home/user/catkin\_ws/devel/setup.bash
    - 2.1.3. roslaunch schunck\_ezn64\_ezn64\_usb\_control.launch
  - 2.2. **In 2<sup>nd</sup> terminal:**
    - 2.2.1. rosservice call /schunck\_ezn64/reference
  - 2.3. **In 3<sup>rd</sup> terminal:**
    - 2.3.1. rosrun roserial\_python serial\_node.py /dev/ttyACM0
  - 2.4. **In 4<sup>th</sup> terminal:**
    - 2.4.1. rosrun listenerT getData.py (topic name /chatter)
  - 2.5. **In 5<sup>th</sup> terminal:**
    - 2.5.1. rosrun listenerT sendData.py (topic name /setData sends position 0 then 20 with velocities 80, 60 and 40, for each velocity does 10 times)