**Common Issues:**

Ros path not found: source the ros path in .bashrc

-> nano ~/.bashrc and at the end add the line: source /opt/ros/noetic/setup.bash

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ERROR: cannot launch node of type … source the path to your workspace in .bashrc

-> nano ~/.bashrc and at the end add the line /[path to your catkin workspace]/devel/setup.bash

If the Error still occurs check if pkg name for every node in ~/BOB/src/catkin\_ws/src/bob/launch/XBoxController.launch is correct.

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ERROR while compiling : package name and project name are not the same

-> cd bob ->nano CMakeList.txt and edit the name to be the same as in package.xml

Also check if the Path in motordriver\_library/CMakeList.txt ist correct

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ERROR with WiringPi: if it says that you lack permission of i2c

->sudo usermod -aG dialout ubuntu

->sudo chown root:dialout /dev/i2c-1

->sudo chmod 660 /dev/i2c-1

And log back in

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ERROR with WiringPi: if it says that your user does not have permission for gpio

-> sudo chmod o+rw /dev/mem

-> sudo chmod o+rw /dev/gpiomem

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ERROR while compiling: Clockskew detected

-> set the time manually in the settings or

sudo apt-get update

sudo apt-get install ntp

Ntp will handle the clock by itself

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ERROR while compiling: RLException: Unable to contact my own server at [<http://ubuntu:46705/>]

This means that the system cant contact the ubuntu server

->sudo nano /etc/hosts and add the line: 127.0.0.1 localhost ubuntu

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Installing WiringPi for Raspberry Pi 4

-> sudo apt-get install wiringpi

Since the WiringPi library is deprecated you will have to use a mirror from Github

->go to <https://github.com/WiringPi/WiringPi/releases/tag/2.61-1> and download the arm64 version at the bottom

->cp ~/Downloads/wiringpi-2.61-1-arm64.deb /tmp/wiringpi-latest.deb

->cd /tmp

-> sudo dpkg -i wirinpi-latest.deb

You can check the Version with gpio -v or check if its working with gpio readall

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