Installing the robot arm

First step

Open terminal and write:

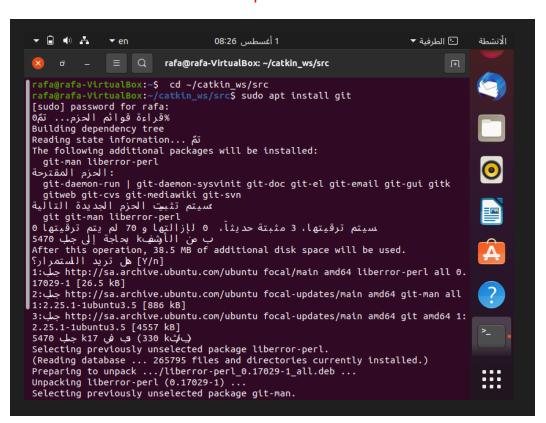
```
mkdir -p ~/catkin_ws/src
cd ~/catkin_ws/

catkin_make

cd ~/catkin_ws/src

git clone https://github.com/smart-methods/arduino_robot_arm.git
cd ~/catkin ws
```

some screenshot from the start process



Complete the process

All the packages:

- rosdep install --from-paths src --ignore-src -r -y
 sudo apt-get install ros-noetic-moveit
 - sudo apt-get install ros-noetic-joint-state-publisher rosnoetic-joint-state-publisher-gui
 - sudo apt-get install ros-noetic-gazebo-ros-control joint

state-publisher

```
| Tafa@rafa-VirtualBox: ~/catkin_ws | Talamade4.deb ... | Impacking ros-noetic-ros-control (0.19.5-1focal.20220107.004158) ... | Selecting previously unselected package ros-noetic-velocity-controllers. | Preparing to unpack .../11-ros-noetic-velocity-controllers. | O.20.0-1focal.20220519.094749) ... | Selecting previously unselected package ros-noetic-ros-controllers. | Preparing to unpack .../12-ros-noetic-ros-controllers. | O.20.0-1focal.20220519.094749) ... | Selecting previously unselected package ros-noetic-ros-controllers. | Preparing to unpack .../12-ros-noetic-ros-controllers. | O.20.0-1focal.20220519.094749) ... | Setting up ros-noetic-diff-drive-controller (0.20.0-1focal.20220519.091305) ... | Setting up ros-noetic-diff-drive-controller (0.20.0-1focal.20220519.091305) ... | Setting up ros-noetic-gripper-action-controller (0.20.0-1focal.20220519.094627) ... | Setting up ros-noetic-combined-robot-hw (0.19.5-1focal.20220519.094627) ... | Setting up ros-noetic-joint-trajectory-controller (0.20.0-1focal.20220519.09464 3) ... | Setting up ros-noetic-imu-sensor-controller (0.20.0-1focal.20220512.124630 ) ... | Setting up ros-noetic-forward-command-controller (0.20.0-1focal.20220512.124630 ) ... | Setting up ros-noetic-ros-controllers (0.20.0-1focal.20220519.094637) ... | Setting up ros-noetic-ros-controllers (0.20.0-1focal.20220519.094637) ... | Setting up ros-noetic-effort-controllers (0.20.0-1focal.20220519.094637) ... | Setting up ros-noetic-ros-controllers (0.20.0-1focal.20220519.094637) ... | Setting up ros-noetic-position-controllers (0.20.0-1focal.20220519.094637) ... | Setting up ros-noetic-ros-controllers (0.20.0-1focal.202205
```

After the packages loading process is over

Open a new terminal and write:

```
sudo nano ~/.bashrc

source /home/rafa/catkin_ws/devel/setup.bash
and for log out:

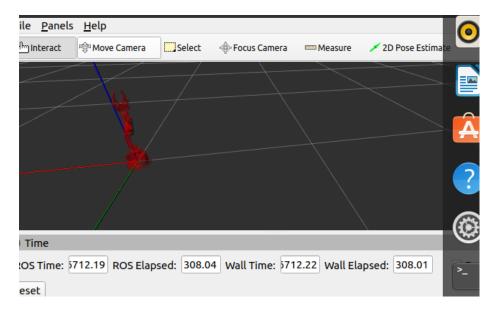
ctlr + o then enter
ctrl + x
source ~/.bashrc

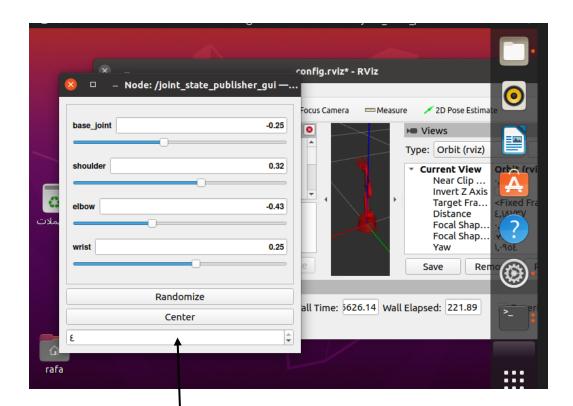
roslaunch robot arm pkg check motors.launch
```



finish

open the Rviz





joint-state-publisher