

Jumana Yassin Abdlghni Al-adani

**مسار الروبوت و الذكاء الصّناعي**

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الأكواد المستخدمة للذراع :

sudo sh -c 'echo "deb http://packages.ros.org/ros/ubuntu $(lsb\_release -sc) main" > /etc/apt/sources.list.d/ros-latest.list'

sudo apt-key adv --keyserver 'hkp://keyserver.ubuntu.com:80' --recv-key C1CF6E31E6BADE8868B172B4F42ED6FBAB17C654

sudo apt-get update

sudo apt-get install ros-kinetic-desktop-full

apt-cache search ros-kinetic

echo "source /opt/ros/kinetic/setup.bash" >> ~/.bashrc

source ~/.bashrc

sudo apt install python-rosdep python-rosinstall python-rosinstall-generator python-wstool build-essential

sudo apt install python-rosdep

sudo rosdep init

rosdep update

sudo apt-get install ros-noetic-catkin

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

rosdep install --from-paths src --ignore-src -r -y

sudo apt-get install ros-kinetic-moveit

sudo apt-get install ros-kinetic-joint-state-publisher ros-kinetic-joint-state-publisher-gui

sudo apt-get install ros-kinetic-gazebo-ros-control joint-state-publisher

sudo apt-get install ros-kinetic-ros-controllers ros-kinetic-ros-control

sudo nano ~/.bashrc

at the end of the (bashrc) file add the follwing line

(source /home/jumana\_aladani/catkin\_ws/devel/setup.bash)

then

ctrl + o

source ~/.bashrc

roslaunch robot\_arm\_pkg check\_motors.launch