# Requirements

1 x Raspberry pi 3 B

1 x OKO Lİdar

Ubuntu Maze Installation

# Ros Installation

* You can visit the webpage below to see more information.

<http://wiki.ros.org/kinetic/Installation/Ubuntu>

1. Setup your sources.list

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

2. Setup your keys

* $ sudo apt-key adv --keyserver hkp://ha.pool.sks-keyservers.net:80 --recv-key 421C365BD9FF1F717815A3895523BAEEB01FA116

3. Update your Debian package index

* $ sudo apt-get update

4. Install the Desktop-Full Install repository by using the command given below.

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

5. Inıtialize rosdep

* $ sudo rosdep init
* $ rosdep update

6. Add ros environment to your bash session

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

7. Install additional dependencies for building ros packages

* $ sudo apt install python-rosinstall python-rosinstall-generator python-wstool build-essential

# Setup the Workspace

1. Create a

How Serial Communication Package Works