# Wireless PS4 Controller Setup

This document outlines how to set up a PS4 controller on the ITX computer and control the Husky UGV.  
  
The original guide can be found [here](https://www.clearpathrobotics.com/assets/guides/melodic/husky/jetson_nano.html#step-3-installing-the-software).

**Prerequisites**

* Husky software installed on the ITX computer, see relevant guide in project or refer to Clearpath Robotics website for installation.
* Bluetooth capabilities for the computer, such as a Bluetooth dongle.
* Ubuntu BlueZ package. Can be installed via: sudo apt-get install bluez

**Steps**

Run the following commands:

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| --- |
| $ bluetoothctl  agent on scan on |

You should be able to find the controller named as “Wireless Controller” or similar. Grab its MAC address.

|  |
| --- |
| scan off pair <MAC ADDRESS> trust <MAC ADDRESS> connect <MAC ADDRESS> |

Press ctrl + d to exit.

Now you should be able to control the Husky UGV by pressing L1 on the PS4 controller and drive it with the left analog stick.