# Introduction

The following guide has been designed to instruct the user on how to configure the software (scripts, functions, programs, etc.) that controls that control the hardware (electrical components, modules, sensors, etc.) that compose the prototype.

# Configuration of Bluetooth antenna

All of the prototypes developed for this project transmit or relay sensor data wirelessly, via a Bluetooth antenna. This section of the guide will support the user through the processes of pairing and connecting the Bluetooth antenna to a control computer. For the extent of this guide, the control computer has been assumed to run a Windows operating system.

## Pairing with control system

1. Power the Bluetooth antenna
   1. Red flashing light on the breakout board will indicated power on but disconnected
2. On the control computer, add a Bluetooth device
   1. The user may search “add Bluetooth device” under the start menu
3. To identify the Bluetooth antenna within the “Add a device” window, compare the IDs listed to that printed on the antenna
4. Select the Bluetooth antenna and chose the second pairing option “Enter the device’s pairing code”
   1. Enter the pairing code “1234”
   2. Most antennas have been encrypted with simple pairing codes such as “0000” or “1234”, for more information consult the antennas user guide [ref]
5. Wait until the control computer installs the COM ports associated with the antenna
   1. Note that serial communication may not be establish directly through this interface. In other words, a successful connection cannot be demonstrated at this point
   2. If the installation completes successfully, the user may assume that a connection is feasible
6. In order to verify the COM port number for the antenna, the user may right-click on the Bluetooth device (within the list of paired devices), select “Properties” and then look under the “Hardware” tab

## Configuring the module