

# **User Manual**

## **1. Intrduction to B.o.b**

B.o.b stands for Bertrandt-office-bot.

He will be used for operating and assisting around the office.

Its primary use will be to bring coffee to a very thirsty Employee.

He will be doing that autonomously using image detection and Machine Learning.

B.o.b is approximately 60 cm long and 30 cm wide.

B.o.b has a camera mounted to a pole at approximately 1.2 Meters so its view is not obstructed.

B.o.b uses two Motor drivers which are connected to the two motorized Hoverboard wheels to steer.

At the front he uses a single wheel to stabilize.

You will also be able to drive B.o.b using a XBoxOne controller.

## 2. User interface

B.o.b will be using a very simple Button Layout to allow for an easy introduction to the Product.

### Button Layout

Left Joystick ==> Driving

Arrow Keys ==> Rotating

Left Arrow ==> Rotate Left

Right Arrow ==> Rotate Right

B Button ==> Emergency Stop



### **3. Safety Warnings**

- Do not put heavy Objects on B.o.b
- Do not stand directly infront of B.o.b
- If at any time B.o.b gets out of control push the Emergency Stop button
- Only use B.o.b on flat terrain