**Synthiam ARC Voice Control Turtle Bot Project Manual**

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**Introduction**

This project is to send voice instruction to turtle bot and make the turtle bot move according the instruction by using Bing Speech Recognition plug-in on Synthiam ARC.

**How to Run**

To run this project, Synthiam ARC program is required to be installed.

1. Connect the turtle bot with Synthiam ARC follow the tutorial video: <https://www.youtube.com/watch?v=TpkuZ_EMJmQ&t=197s> (You don’t need to connect with the movement joystick plug-in which requires subscription)
2. Add a Bing Speech Recognition plug-in
3. Run the “turtlebot.EZB” attached in this folder.
4. When you want to send an instruction, click the “start recording” button on the Speech Recognition plug-in. Once you finish speaking, click “stop recording”.
5. The turtle bot will move according the instruction

(Note: the program can only accept the following instructions with exact word: “Forward”, “Backward”, “Stop”, “Left”, “Right”)

**Apparatus**

Turtle Bot

**桌子上有许多电子设备

描述已自动生成**

Plug-ins

**图形用户界面

描述已自动生成**

Code

桌子上的电脑屏幕

描述已自动生成