Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Insectbot Kit

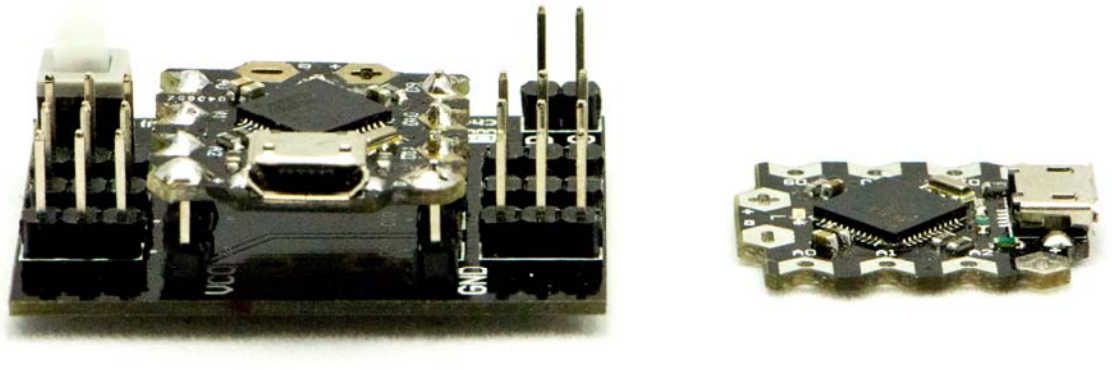
SKU: KIT0051

INTRODUCTION

The Insect Bot mini is an easy to assemble robot for young engineers from 6 to 100. With assembling this robot you will learn the basic robotics in terms of how all the components work together. There is a microcontroller which is working as the robot brain and two servo motors for the movement. The IR sensor on it's head will act as an eye to detect obstacles in front. The programming can be done by simply connecting the Beetle controller with the USB port on your computer. It is the best way to start building robot on Arduino.

Assembling parts

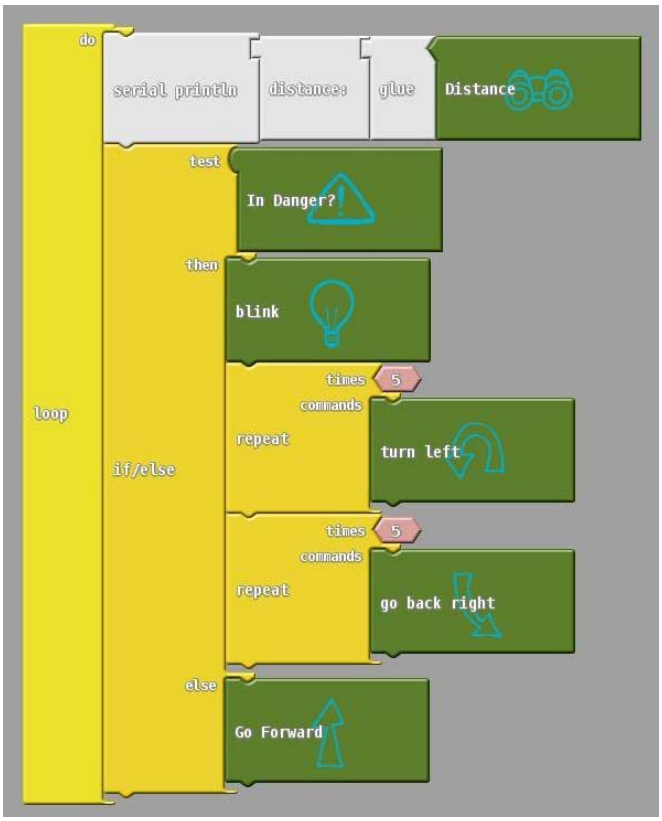
The brain of Insectbot is "world's smallest Leonardo", a.k.a. Beetle. It is ideal for DIY projects, wearable projects and etc. Its body is made up of two 9-gram servos powered by a rechargable 3.7V LiPo battery. Its eyes are an infrared sensor to detect obstacles. It requires no special tools except a soldering iron, scissors, screwdriver, pliers. You can decorate your Insectbot Mini to give him a unique, cute or funny Christmas outfit. We also provide a step-by-step instruction to help you assemble it.



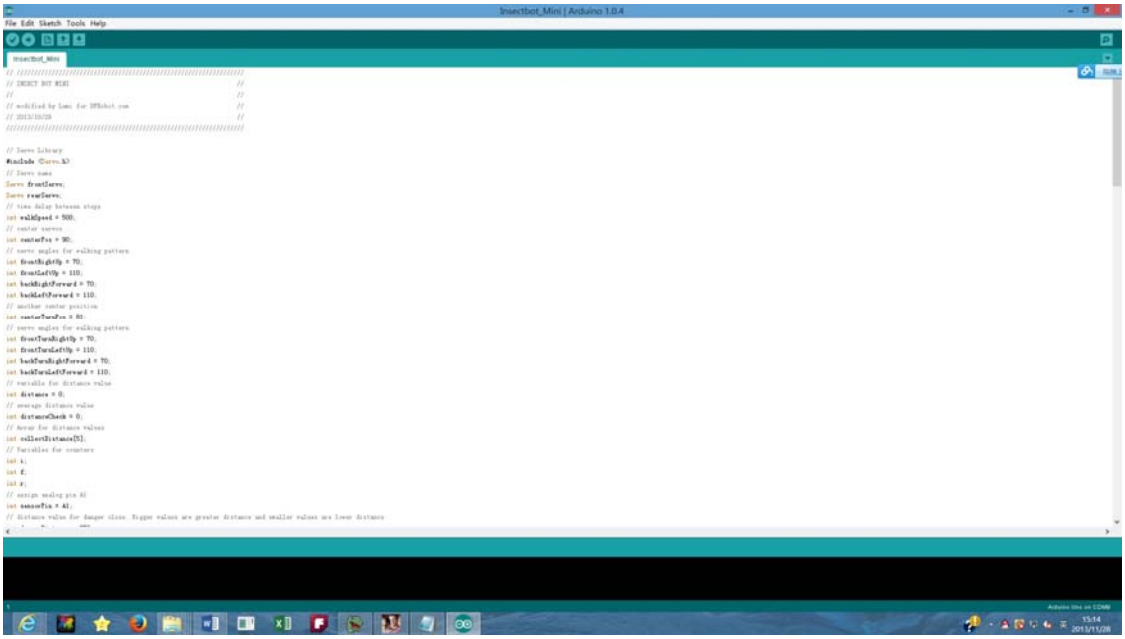
Beetle and Beetle Shield

Programming for Insectbot

We provide 3 programming languages for you such as Ardublock, Mind+ and Arduino IDE. For beginners, you can program it simply by dragging and dropping pre-designed blocks visa visual programming softwares Ardublock and Mind+. For advanced DIYers, you also modify Arduino IDE for your liking.



Programming Insectbot with Ardublock



Programming Insectbot with Arduino IDE

Tools Needed:

- Soldering iron
- Scissors
- Screwdriver
- Pliers

Note: tools are not included in the kit
Check this guide if your sensor wiring is switched. http://www.instructables.com/id/Insect-Bot-mini/

SHIPPING LIST

- 1x Beetle (Arduino compatible)
- 1x Beetle Shield
- 2x 9g Micro Servo
- 1x Sharp IR Sensor
- 1x LiPo Battery 3.7V/ 180mAh + Charger
- 2x Steel Wire 200mm x 1 mm(7.87"x0.039")
- 1x ABS Sheet (50x50mm)(1.97"x1.97")
- 1x Double Sided Foam Tape(L/W/H:40x30x3mm)(L/W/H:1.57x1.18x0.12")
- 5x Cable Tie 1.8x100mm90.07x3.93')
- 1x Cable Tie 4x200mm(0.16x7.87')