

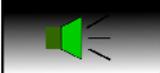
51 Flowcode Programming User Manual

Freeware Requirements:

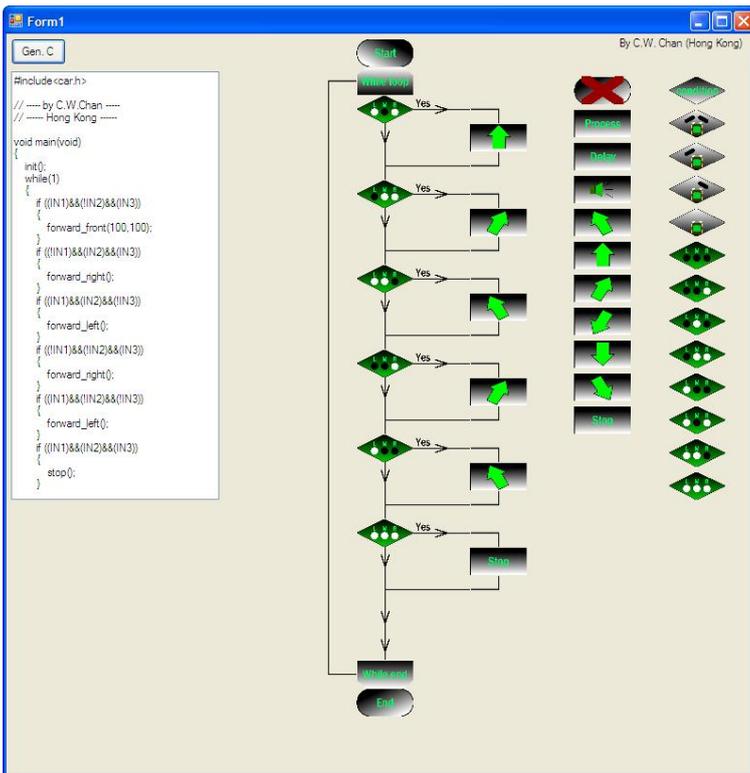
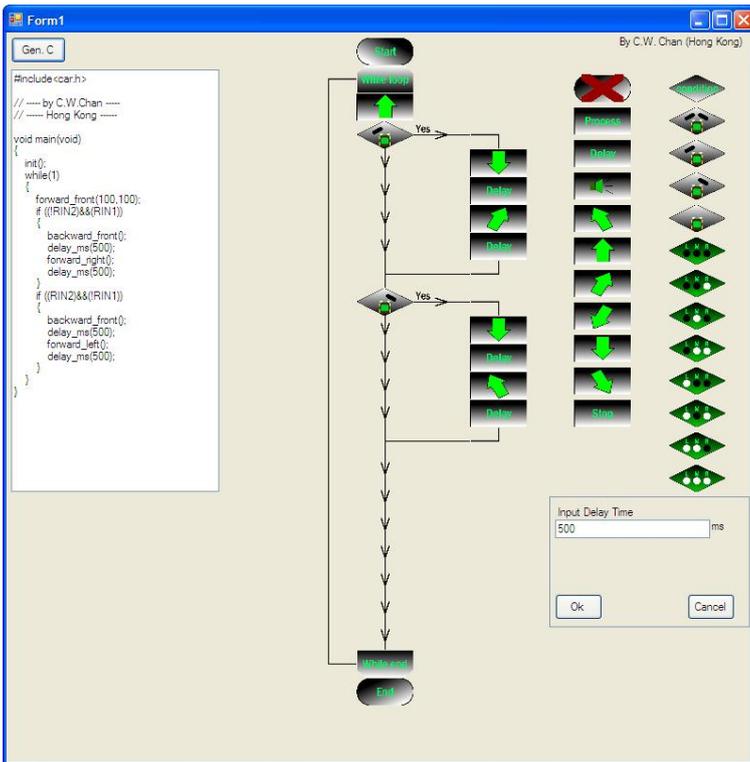
1. Install .net framework 3.5 or 4.0 first, <http://msdn.microsoft.com/en-us/netframework/cc378097>
2. Download the STC freeware and install it.
3. Connect the computer and the 89C52RC chip carrier board (51 Robot Car) through the USB-RS232 cable.

51 Flowcode Programming Steps:

1. Click the ToyCar.exe file –
Flowchart editor opened. Create flowchart according to the robot car running operations. Maximum 20 processes can be inserted between program start and end at present stage. The following processes can be inserted in the flowchart.

Process cannot be edited.				
 Program start	 Program end	 Loop start	 Loop end	 Buzzer
 2 front sensors obstructed	 Left front sensor obstructed	 Right front sensor obstructed	 2 front sensors cleared	 Sensors on track
 Sensor leave track	 1 right sensor on track	 2 right sensors on track	 1 left sensor on track	 2 left sensors on track
 Moving backward	 Moving left backward	 Moving right backward	 Moving left forward	 Moving right forward
Process can be edited. Double click the icon, edit window will be displayed.				
	Process – for interested persons to input their commands.			
	Moving forward - speed of left and right wheels can be input.			
	Delay - time delay in millisecond can be input.			
	Delete process – drag this icon on the process want to delete.			
	Decision – criteria can be input.			

Two examples are shown below:



2. After create the flowchart, click Gen C ion to generate the C program and create the Hex file.

3. Check the corresponding USB-RS232 cable com port – control panel 控制面板 – system 系统 – hardware 硬件-device management 設備管理 – com & LTP 端口 USB-SERIAL CH340. It will show you the CH340 corresponding com value.

