

Introduction

Congratulations on your BotBoard 05 Pro purchase! These instructions have been written in order to assist you in getting code onto your new BotBoard.

This documentation has been written assuming you're running a recent version of Windows. Should you be running Linux or another alternative operating system... you're on your own. Sorry. Also, this document assumes that you've had your PIC loaded with the Bloader bootloader. The IEEE office can do this for you free of charge.

Let's begin!

Step 1: Launch Screamer

From the directory you installed Screamer and Bloader to, launch Screamer-v14.exe. The first time you run it, you will need to configure it. Make sure Comm is set to whichever serial port you'll use to connect to your BotBoard; that Baud is set to 9600; that Chip is set to 16F877A; and that Oscillator is set to 20MHz

Step 2: Connect the BotBoard

Connect the BotBoard to the computer with a standard straight-thru (NOT nullmodem) serial port.

Step 3: Find and download the HEX file

Click Open, and find the HEX file for your program (this will be in your MPLAB project directory). Next, apply power to your BotBoard, and click Download. Press the Reset button on the BotBoard, and Screamer should indicate that the download has begun.

Congratulations! You've programmed your PIC.

Troubleshooting

If you reset your BotBoard and the download never commences, you may have selected the wrong serial port, or have a connection problem. Ensure that the power LED is on on the BotBoard, that you did press the reset button, that you're connected to the right serial port, that the Comm, Baud, Chip and Oscillator settings are correct. If all of these are correct, it is possible that you've accidentally erased the bootloader from the PIC. The IEEE office can assist in restoring it.

If Screamer complains about the GOTO in the HEX file being in the wrong place, you've not performed code bumping properly. More information on this can be found in the support forum at www.sparkfun.com.

For any other problems with Bloader and Screamer, please consult the support forum at www.sparkfun.com.