

Introduction

Congratulations on your BotBoard 05 Pro purchase! These instructions have been written in order to assist you in setting up your computer to write code for 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.

Let's begin!

Step 1: Install MPLAB

Visit www.microchip.com and click on "MPLAB IDE", then on "MPLAB IDE" again in the resultant table. At the time of this writing, the most recent version was 7.22. We recommend installing the full zipped version. Unzip this file and run MPLAB_722.exe (or a newer version as appropriate).

When installing MPLAB, you'll want a custom installation to minimize clutter in the program. Choose Custom at the appropriate installation stage. The features you're interested in are:

- 8 bit MCUs
- MPASM Suite
- MPLAB IDE, with MPLAB ICD 2 and MPLAB SIM

Allow the installation to complete before proceeding onto the next step. Allow the preinstallation of USB drivers, and close the document manager.

Step 2: Install PICC-Lite

Visit www.htsoft.com and download the PICC-Lite 8.05PL2 compiler. Click on Downloads -> Demos and Free Software, then HI-TECH PICC-LITE for Windows. You will need to create an account - instructions are under the Register for Downloads heading. Once you've logged in with your account, the download should begin.

When the download is complete, run picclite-setup.exe. Install the software, and say Yes to installing the MPLAB Plugin. Click Next, and dismiss the RegSvr32 dialog.

VERY IMPORTANT: When prompted after installation, restart.

Step 3: Configure MPLAB and PICC-Lite

After restarting, launch MPLAB IDE from the Microchip folder under Programs. Chooser Project -> Set Language Tool Locations, and expand "HI-TECH PICC Toolsuite". Expand "Default Search Paths & Directories", and select "Include Search Path". Select Browse, and navigate to your PICC-Lite installation directory (usually C:\PICCLITE). Select "include" from that folder, and hit OK. Next, select "Library Search path", hit Browse, and "lib" from the same directory.

Hit OK to dismiss the browse dialog, and OK again to dismiss the Set Language Tool Locations dialog.

MPLAB and PICC-Lite are now configured.

Step 4: Install Screamer

The last step is to install the Screamer downloader for the Bloder bootloader. Go to www.sparkfun.com and click on Tutorials. Click on Bloder and Screamer, and then the link to download BloderScreamer-v1.4. Extract this file to a convenient location - the desktop will work.

Congratulations - your development environment is set up.