1 Fully Restoring Factory Settings

There are a few steps involved in fully restoring an epuck to the default settings, which are outlined in this document. In order to perform this, you will need the latest version of the MPLAB IDE software, which you can get at this address: http://www.microchip.com/

You will also need the MPLAB ICD 2 programmer, which works with the epuck's chipset, the proper cable for connecting the epuck to the ICD2, and the ICD2's cable for connecting to a usb port. Finally, there is a file located in the e-puck file archive (the folder that contains this guide) in the Compiled Libraries folder, called firmware.hex. This is the file you will export to the epuck when prompted.

Below, instructions of the form A - B - C refer to menu items in the MPLAB IDE Program.

1.1 Step by Step

1. Remove the hardware on the top of the e-puck. Typically, this is the hardware with the speaker, selector, etc. It is attached to the puck with 3 small screws.

2. Connect the e-puck connector cable to the 12-pin connector on the epuck robot. This connector is on the back-left side if you hold the robot with the camera facing towards you.

3. Connect the e-puck connector to the programmer.

4. Turn the e-puck on.

5. Connect the programmer to your computer's USB port.

6. Load MPLAB IDE.

7. Select the dsPIC30F6014A device. (Configure -¿ Select Device ..)

8. Import firmware.hex (File - Import).

9. Select the ICD2 programmer (Programmer - Select Programmer - MPLAB ICD 2)

10. Connect to the programmer (Programmer - Connect)

11. Program the e-puck (Programmer - Program)

12. This can take a couple of minutes, and once it's done you can use the e-puck again. The terminal will print MPLAB ICD 2 Ready when it terminates.