

Tutorial: Setting up your own LaunchPad

If you buy your own LaunchPad MSP430G2, it won't be ready to do the things we do in the lab. This tutorial shows you how to setup your LaunchPad for use with Energia.

Step 1: Download and install Energia

The LaunchPad comes with its own software, but it requires extensive programming knowledge to use. In lab, we use Energia instead, which is much easier to use.

Sub-steps


1. Go to <http://energia.nu/download/>
2. Scroll down until you see a box labelled "Installation"
 - a. Click on the link appropriate for your machine (Windows, Mac OS, Linux)
3. Follow the instructions to install both the USB driver and the Energia program.
 - a. Be sure to use the USB driver for the MSP-EXP430G2 LaunchPad
 - b. If you have any trouble, please ask a mentor for help!

Step 2: Rewire a couple LaunchPad jumper

As it is shipped, the LaunchPad MSP430G2 is not ready to do serial communication with the computer (i.e. the *Serial Monitor* won't work). This is easily fixed by moving a couple jumpers.

Sub-steps

1. Locate the J3 Jumpers on the following diagram.

 **Energia**

LaunchPad with MSP430G2553
Revision 1.5

Flash 16 KB
Serial Hardware


J3 Jumpers

Hardware
Pin number


IC
Serial UART
SPI

analogRead()
digitalRead() and digitalWrite()
digitalRead(), digitalWrite()
and analogWrite()

+3.3V					1
RED_LED		A0	P1_0		2
	RXD	A1	P1_1		3
	TXD	A2	P1_2		4
PUSH2		A3	P1_3		5
		A4	P1_4		6
	SCK (B0)	A5	P1_5		7
	CS (B0)		P2_0		8
			P2_1		9
			P2_2		10



20					GROUND
19	P2_6				XIN
18	P2_7				XOUT
17					TEST
16					RESET
15	P1_7	A7	SDA	MOSI (B0)	
14	P1_6	A6	SCL	MISO (B0)	GREEN_LED
13	P2_5				
12	P2_4				
11	P2_3				

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2. The white boxes represent the orientation that the jumpers should have. You should notice that out of the box, the jumpers on your LaunchPad do not match this orientation. You will need to *gently* pull the appropriate jumpers out and re-insert them according to the diagram above.
 - a. Do not worry, these jumpers are designed to slide on and off.
3. The *Serial Monitor* should now work. You should create a program that uses the Serial Monitor to test that it works properly.

Review

Steps

1. Download and install Energia
2. Re-wire a couple LaunchPad jumpers