

How to create a MPLABX project for Basys MX3

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1. Open MPLAB X from the program menu



2. Create a new project





3. Select 'Standalone Project'



4. Select device:

PIC32MX370F512L

	New Project	
Select Device		
Family:	32-bit MCUs (PIC32)	
Device:	PIC32MX370F512L	
	< Back Next > Finish	Car



5. Select **Basys MX3** OR if not available

Select 'Licenced Debugger'



6. Select the compiler **XC32**





Change the project location to your "P" folder

8. Give the project a **name**

⊗ *		New Project	\sim \sim \otimes
Steps	Select Project Name a	nd Folder	
 Choose Project Select Device Select Header Select Tool Select Plugin Board Select Compiler Select Project Name and Folder 	Project Name: Project Location: Project Folder: Overwrite existing Also delete sources Set as main project Use project location	week12 /home/hardi.selg/P/MPLABXProjects /home/hardi.selg/P/MPLABXProjects/week12.X project. s. t	Browse
	Encoding: ISO-8	859-1	
		< <u>Back</u> Next > <u>Finish</u> Cance	el <u>H</u> elp

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- After pushing "Finish" a project should appear to the left side of the main window
- Now the next step is to download default files for the project
- They can be found on this link:

<u>http://ati.ttu.ee/~hartz/basys-</u> mx3/ENG/ProgI/



Downloading default files

(<u>http://ati.ttu.ee/~hartz/basys-</u> <u>mx3/ENG/ProgI/</u>) · Save the

 Save them to your previously defined project location





Adding files to project





- To add files make a right click on the Header/Source Files name and select "Add Existing Item"
- From there you should see your downloaded files and add them accordingly





Now you can start writing your code!

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21	- *H*/
22	//Libraries
24	\Box #include <xc.b></xc.b>
25	#include <svs attribs.b=""></svs>
26	#include "config.h"
27	
28	#define DELAY IN MSEC 50 50
29	#define DELAY IN MSEC 100 100
30	#define DELAY_IN_MSEC_500 500
31	
32	//Main program
33	📮 int main(void) {
34	<pre>//Has to be the first function call after main()</pre>
35	init(); //Includes PIC16F690 basic configuration
36	int value;
37	//Loop forever
38	while(1)
39	1 (Admitte your code bene
40	//write your code here
41	DelayEorAproxmSeconds (DELAY_IN_MSEC_100)
43	}
44	return 0:
45	L }

- All your code goes to the while(1) loop in main file.
- Variables, of course, should be in the beginning of the main function

