How to use the MSP-EXP430FR2355 board as programmer? (Windows/Linux/Apple)

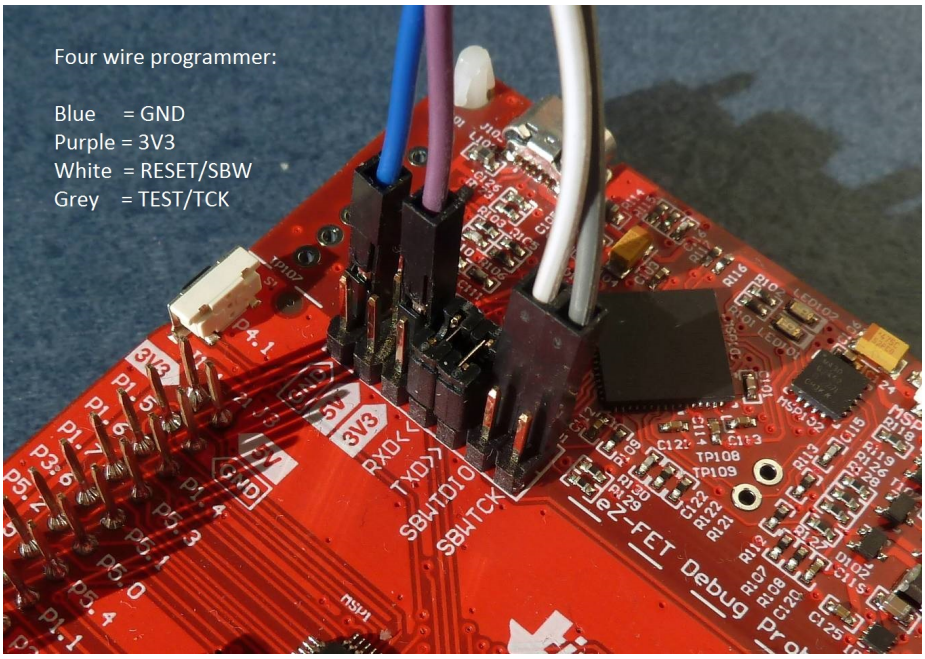
We use the FET-interface on the MSP-EXPFR2355 board as a universal programmeer interface for all MSP430 chips with the exception of the 100-series.

I - What's needed?

- MSP430FR2355 Experimenter's board
- Four wires
- Flash programmer software (UniFlash 4.4.0), link: http://processors.wiki.ti.com/index.php/Category:CCS_UniFlash

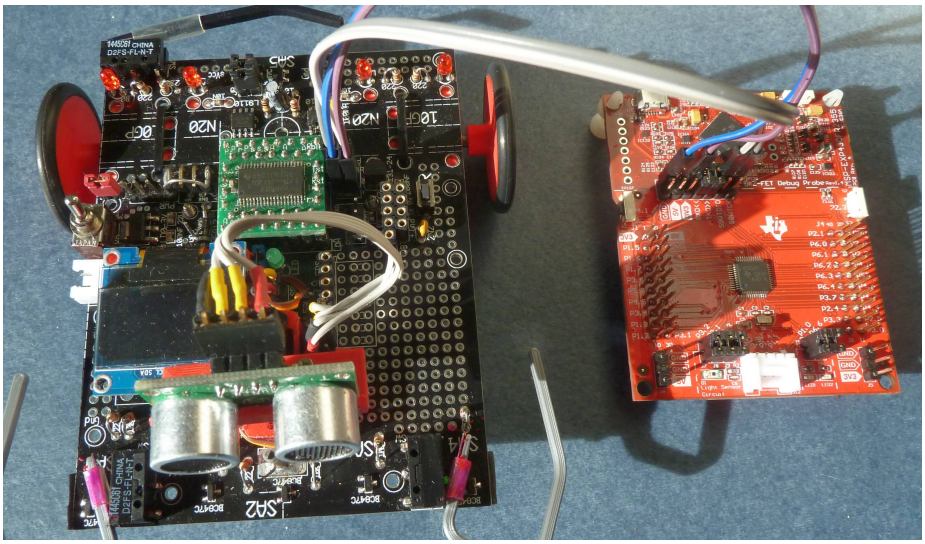
II - MSP-EXP430FR2355 programmer connections:

```
SBWTCK  = To TEST, TST, TCK or T
SBWTDIO = To RESET, RST or R
3V3     = To 3V3, VCC or +
GND     = To GND or -
```

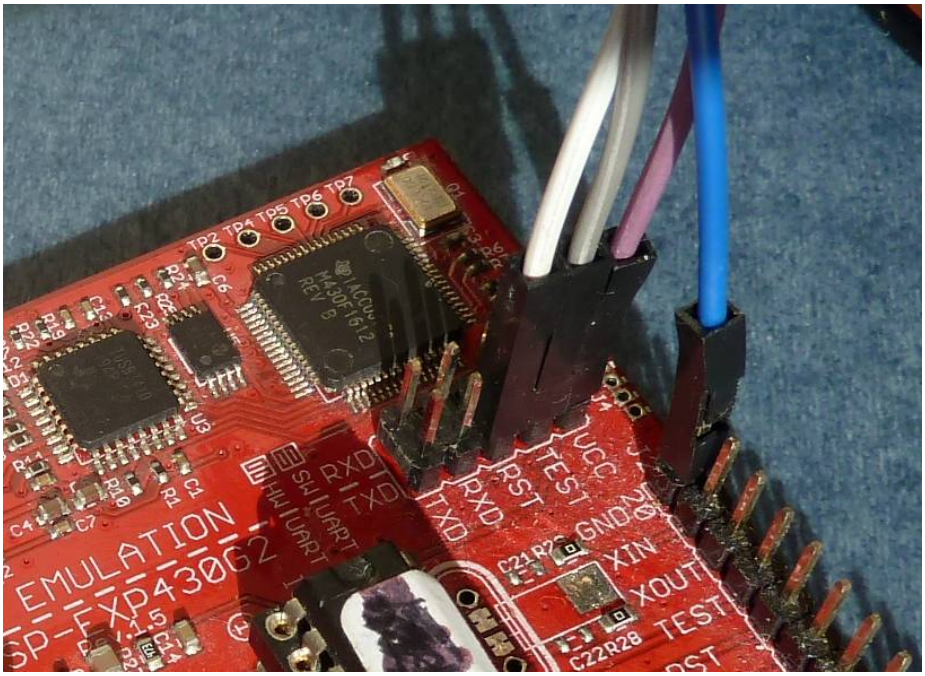


III - Target boards connections:

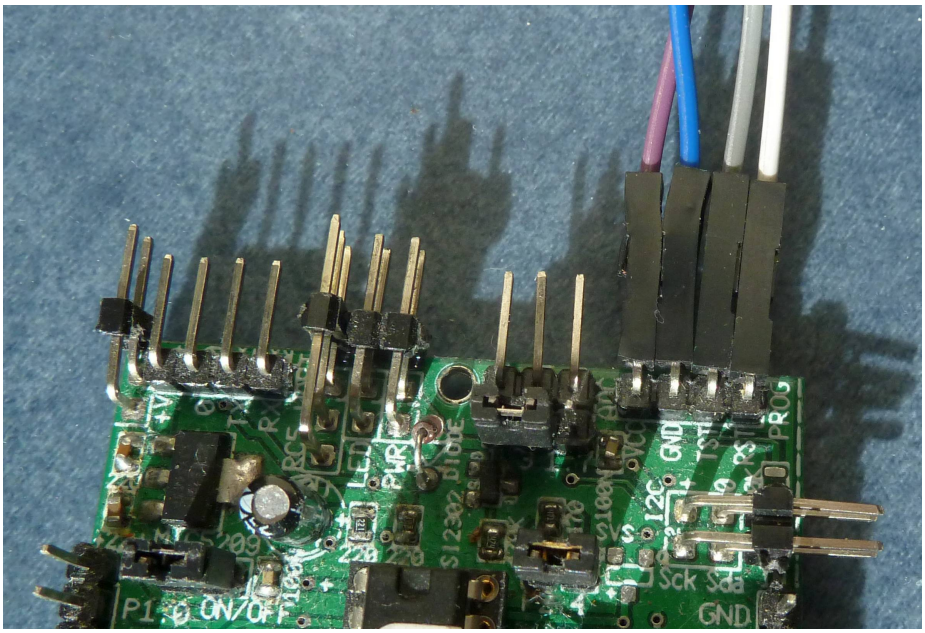
As example: MSP-EXP430FR2355 connected to Cosey PROG-connector



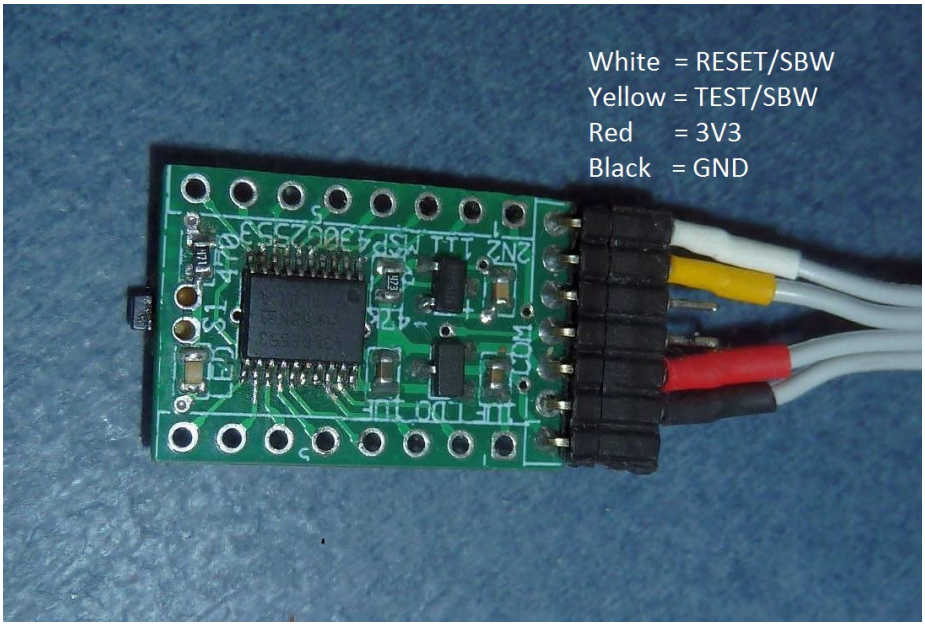
MSP-EXP430G (MSP430G2553)



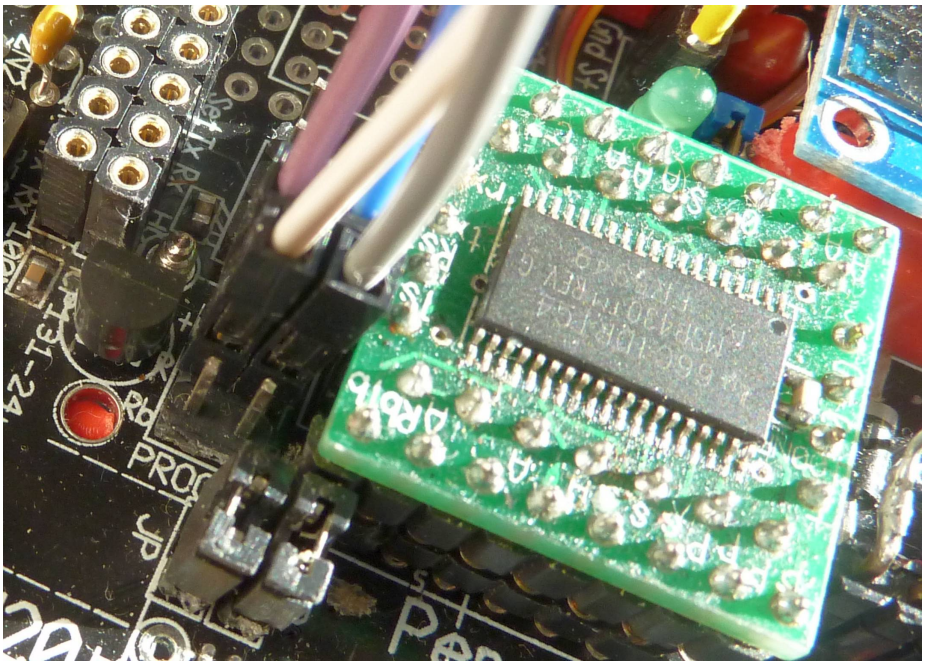
Egel kit (MSP430G2553)

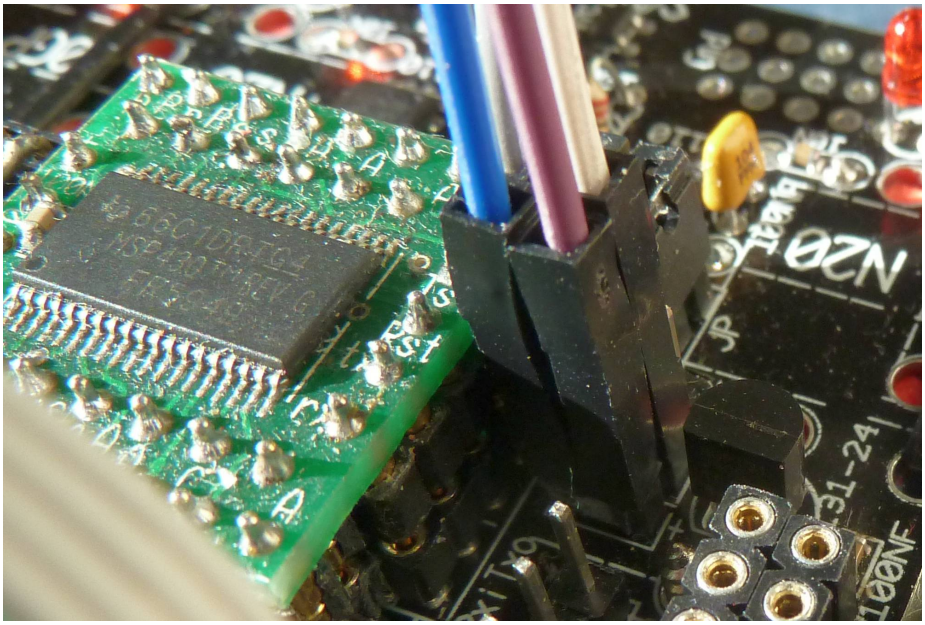


Micro Launchpad (MSP430G2553)



Cosey robot (MSP430G2955 or MSP430FR5949)





IV - What to do?

- Connect the MSP-EXP430FR2355, wait for the beep
- Start UniFlash 4.4.0
- Connect your target board using the four wires, as shown in the pictures

The programming session:

1. Go to: (1) Choose your device
   Category: **MSP**
   Select: **MSP430xxxx** where xxxx is the MSP430 on the connected target board!
2. Then (2) Choose the Connection.
   Select: **TI MSP430 USB1**
3. Then (3) Click: **Start** button
   Now select a flash image using the green **Browse** button and select the wanted noForth image from the file list.
4. Select: **Setting & Utilities** (in the menu on your left)
   Tag: On connect, erase user code and unlock the device
5. Select: **Program** (again, in the menu on your left)
   Click: **Load Image**

If all goes well, you will see the message [SUCCESS] in the console below.

- Now click: **Session** (In the upper left red bar)
  Click: **Save Session** (And click the **save** button in lower left corner)
  Now the software will remember all settings for you