

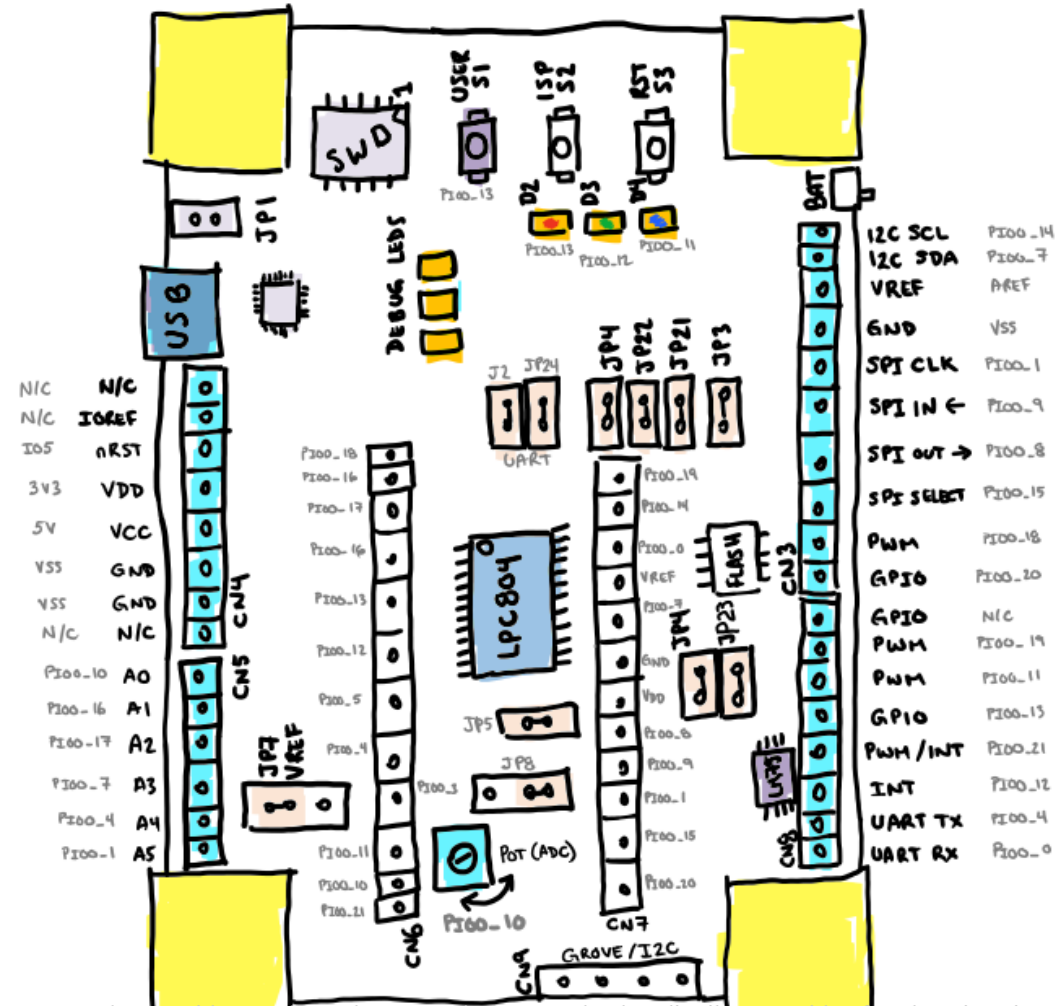
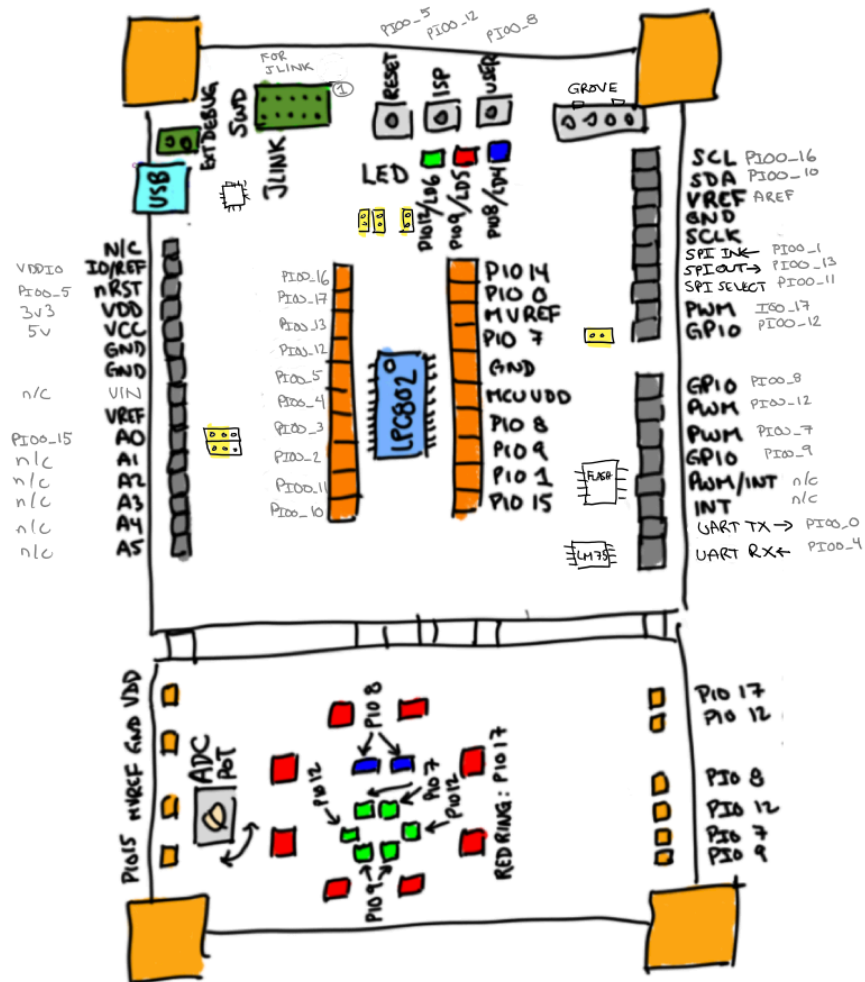
EECS 3215
Embedded
Systems

York University
Lassonde School
of Engineering

Session 7: *Using an External Debugger (Segger JLink)*

Dr. James Andrew Smith, PhD, PEng.

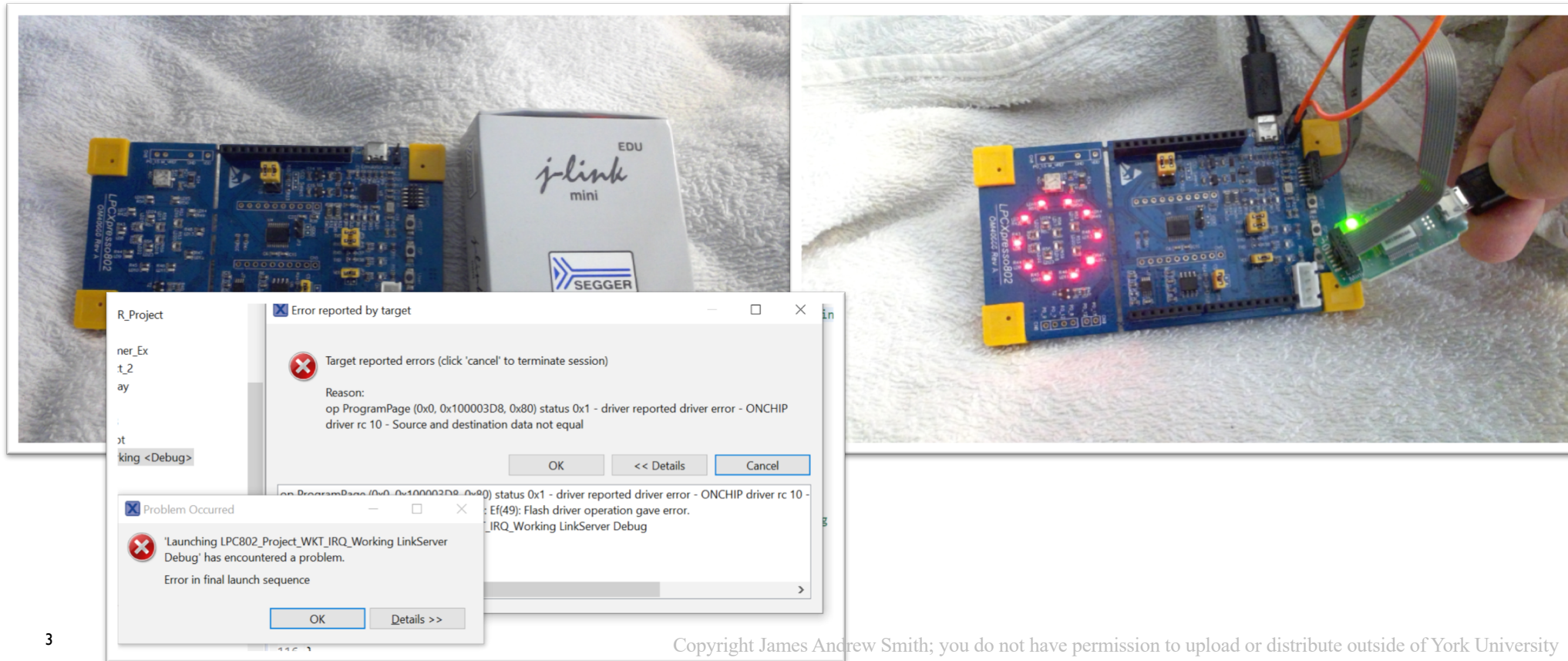
LPC802 & 804 Boards: Both have USB & SWD



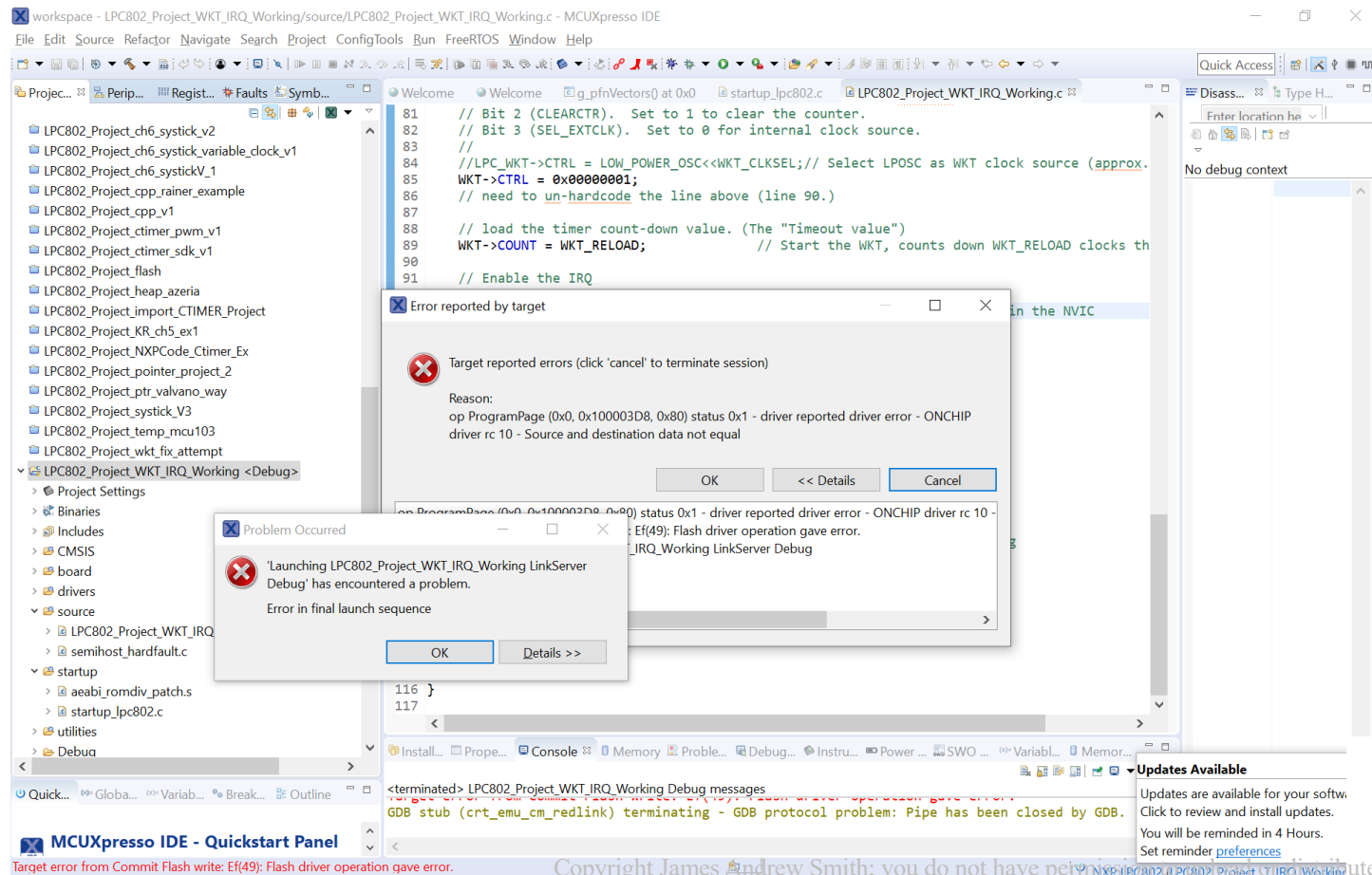
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Problems with the Board

Use an external Jlink Debugger



Board's debugger won't work.

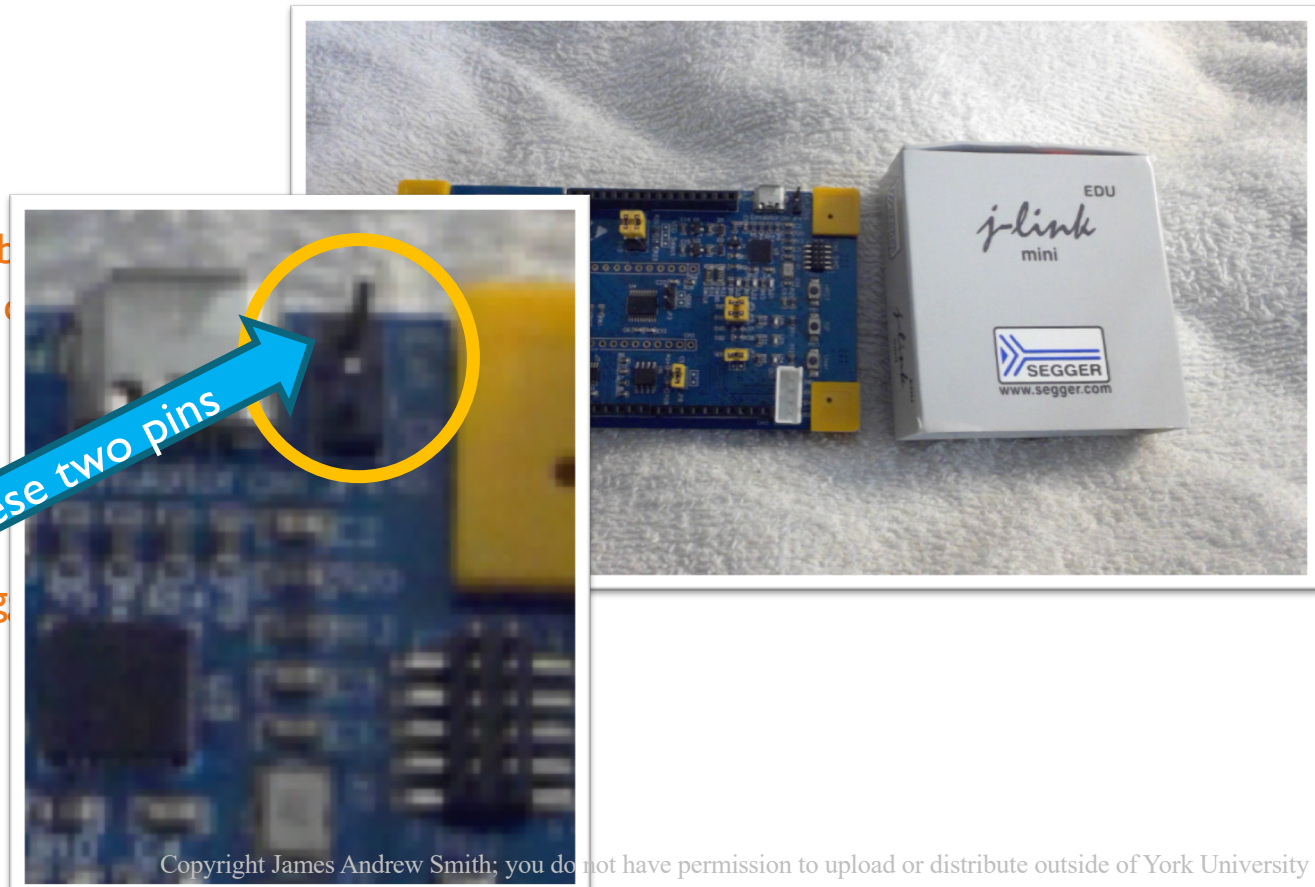


Bypass the built-in debugger with a JLink

- Step 1
 - Jumper “Ext_Dbg”
- Step 2
 - Connect ribbon cable on b/w debugger & board
 - Make sure Pin 1 and red edge of cable line up
- Step 3
 - Plug in USB of Jlink
 - Plug in USB of board
- Step 4
 - Download code using Jlink debugger setting

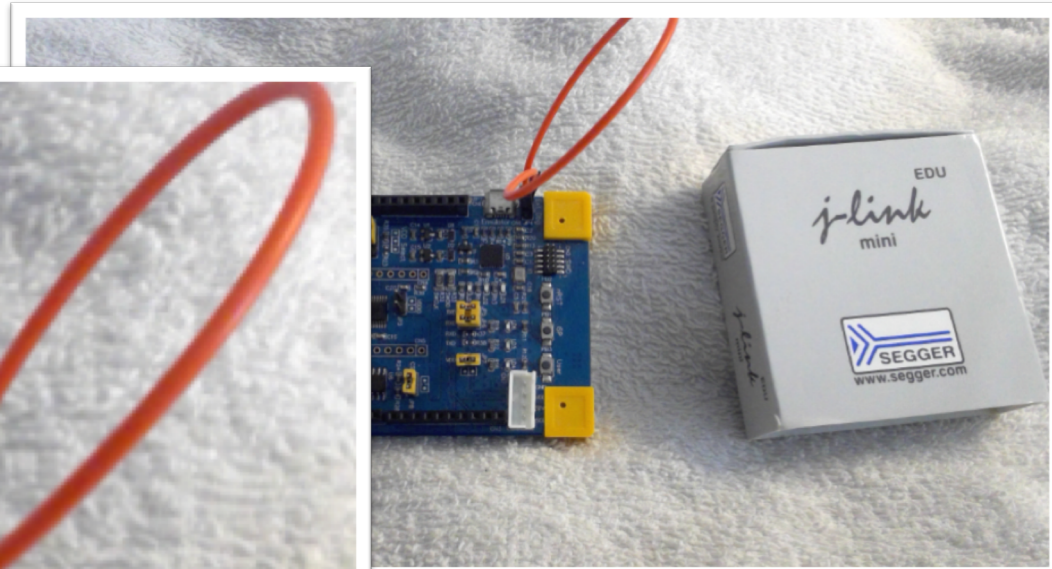
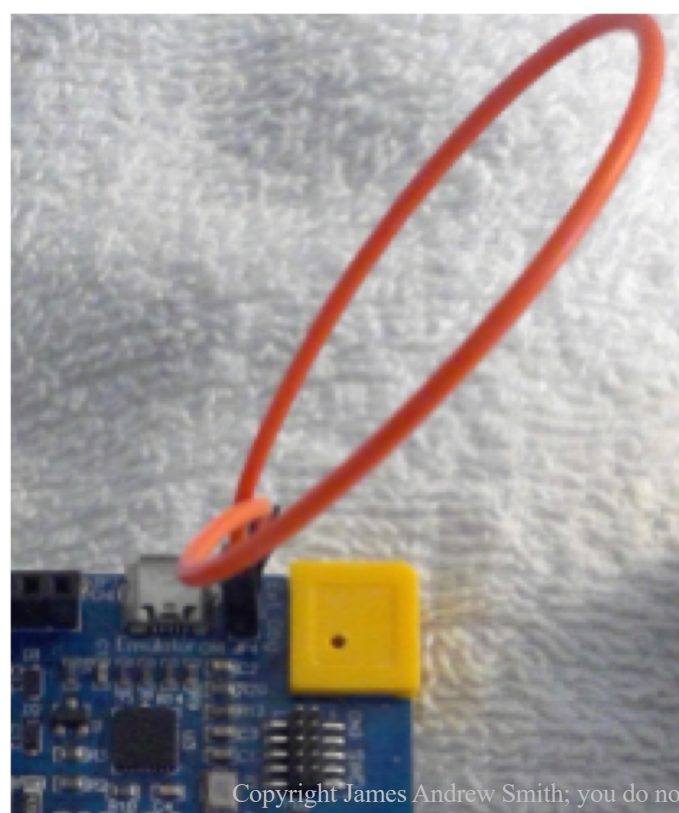
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- Step 4
 - Download code just link debug



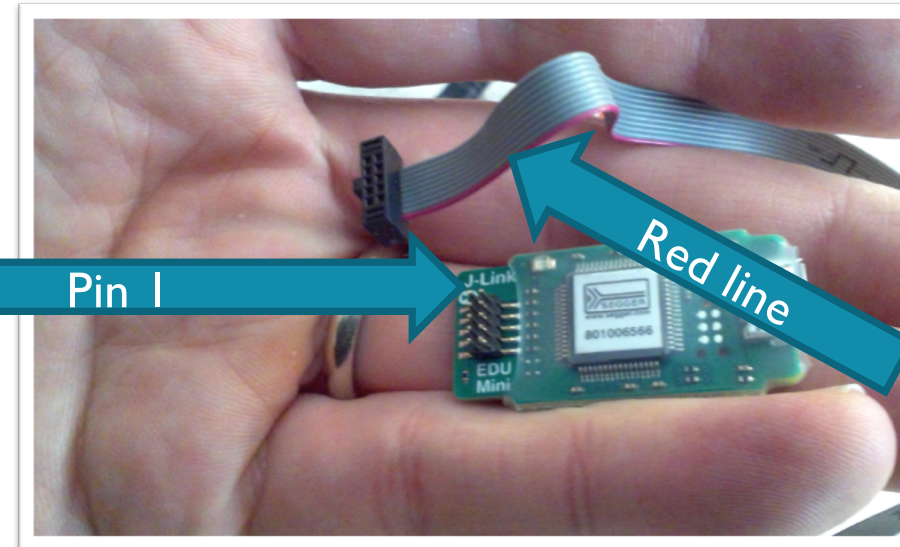
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- Step 4
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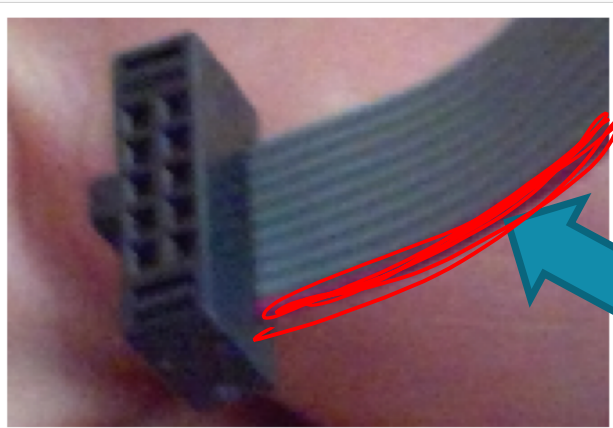
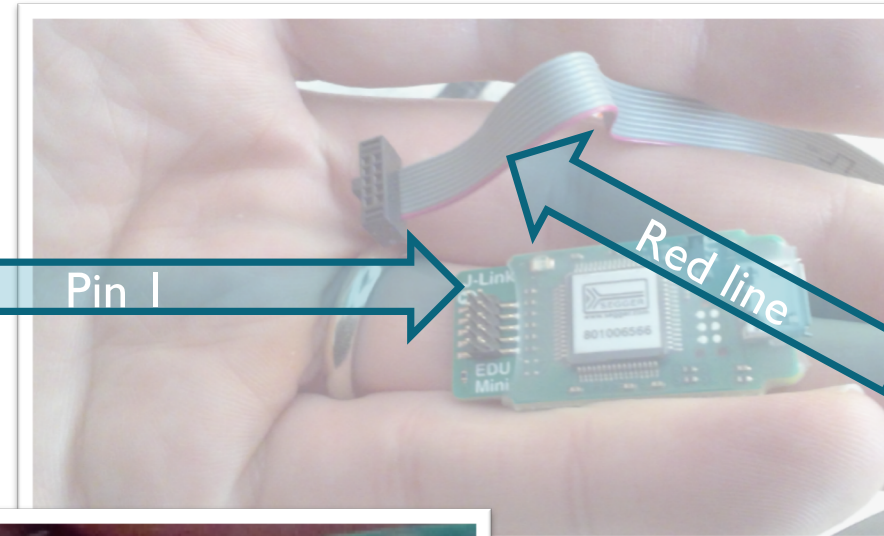
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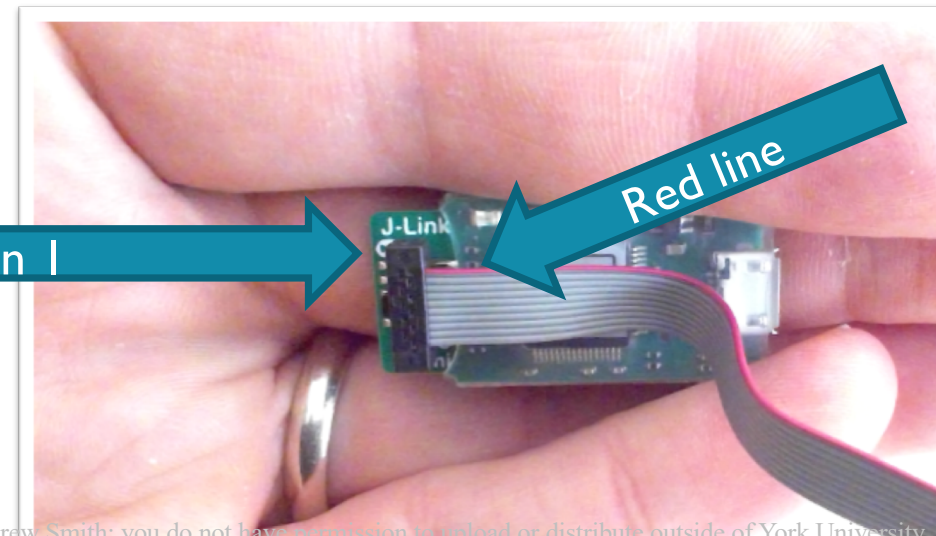
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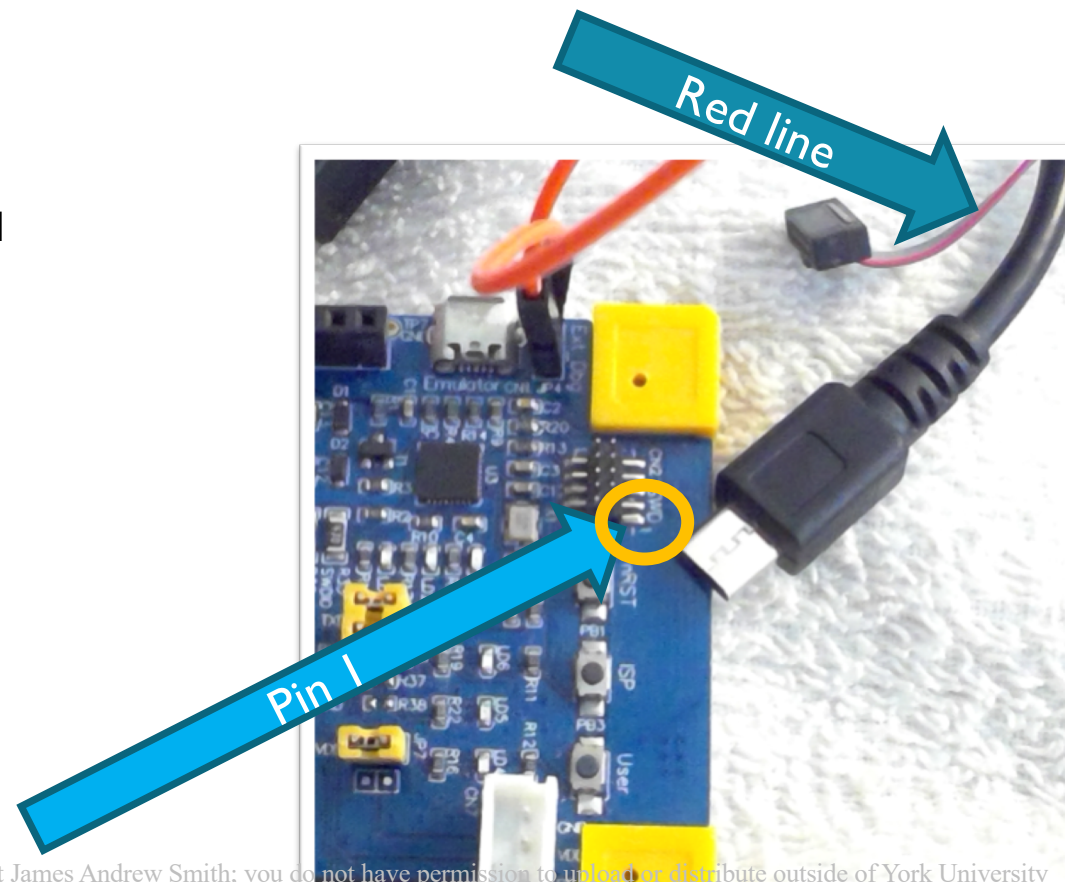
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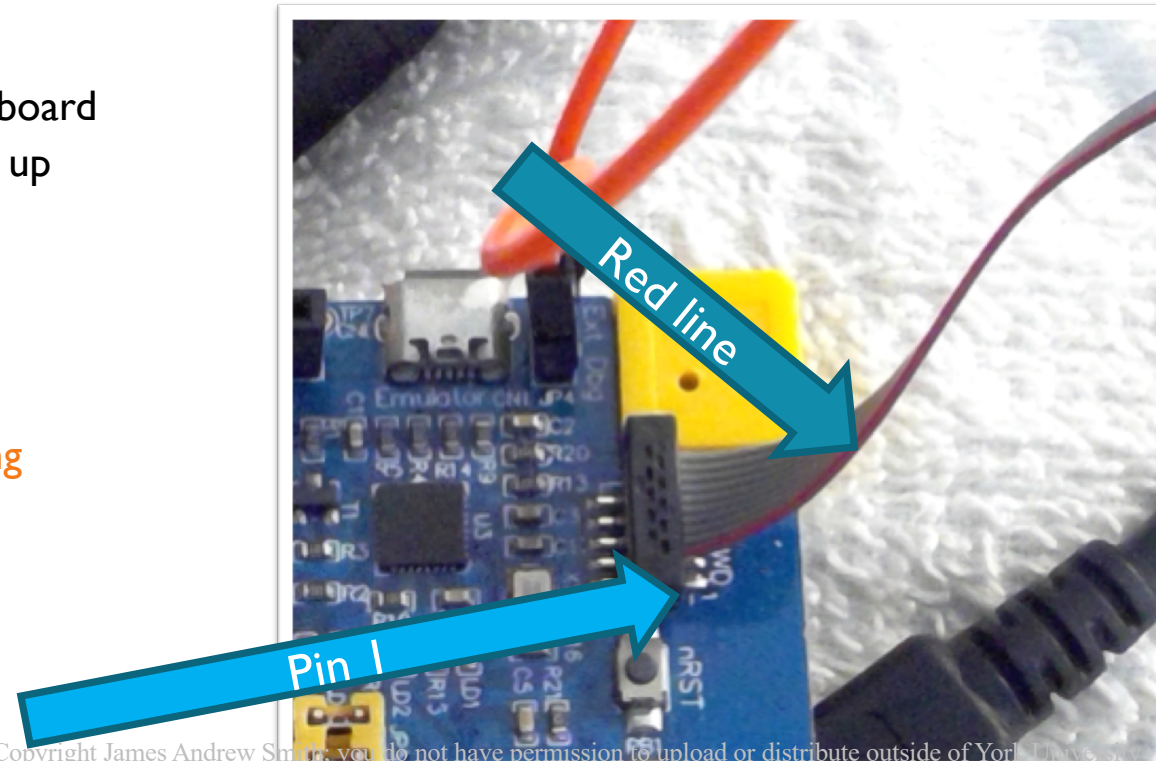
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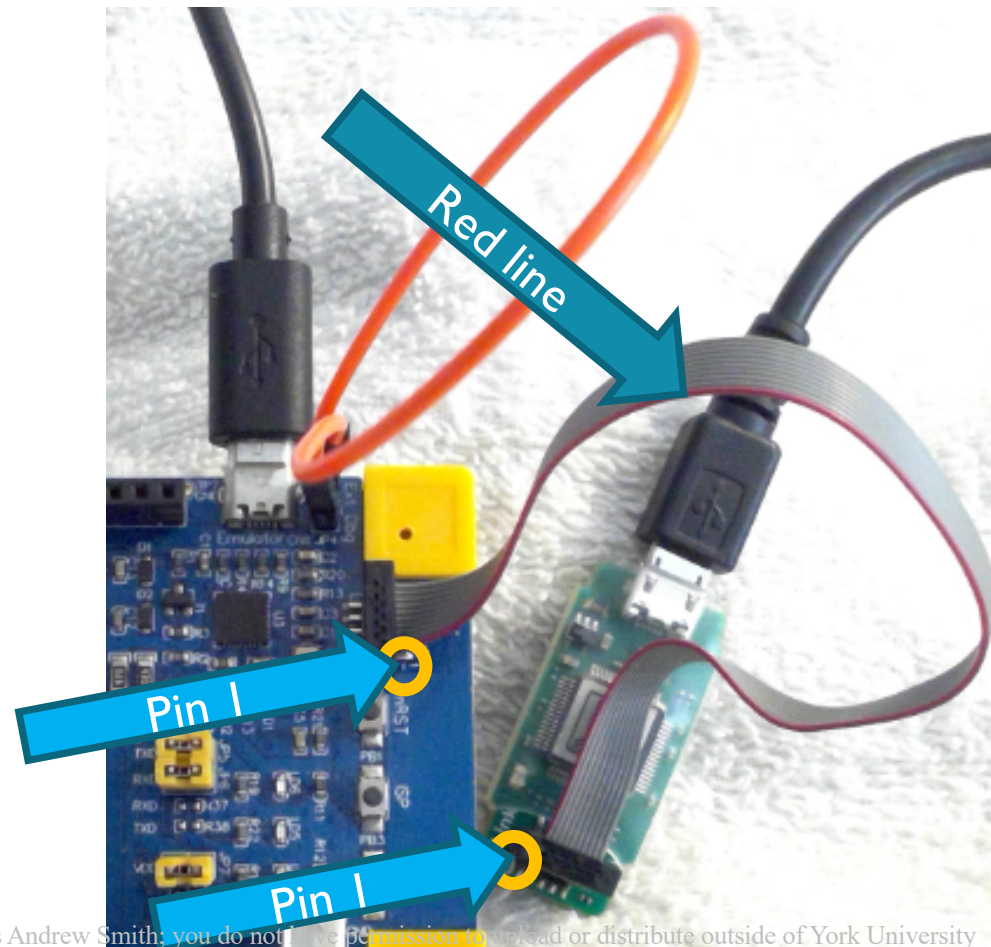
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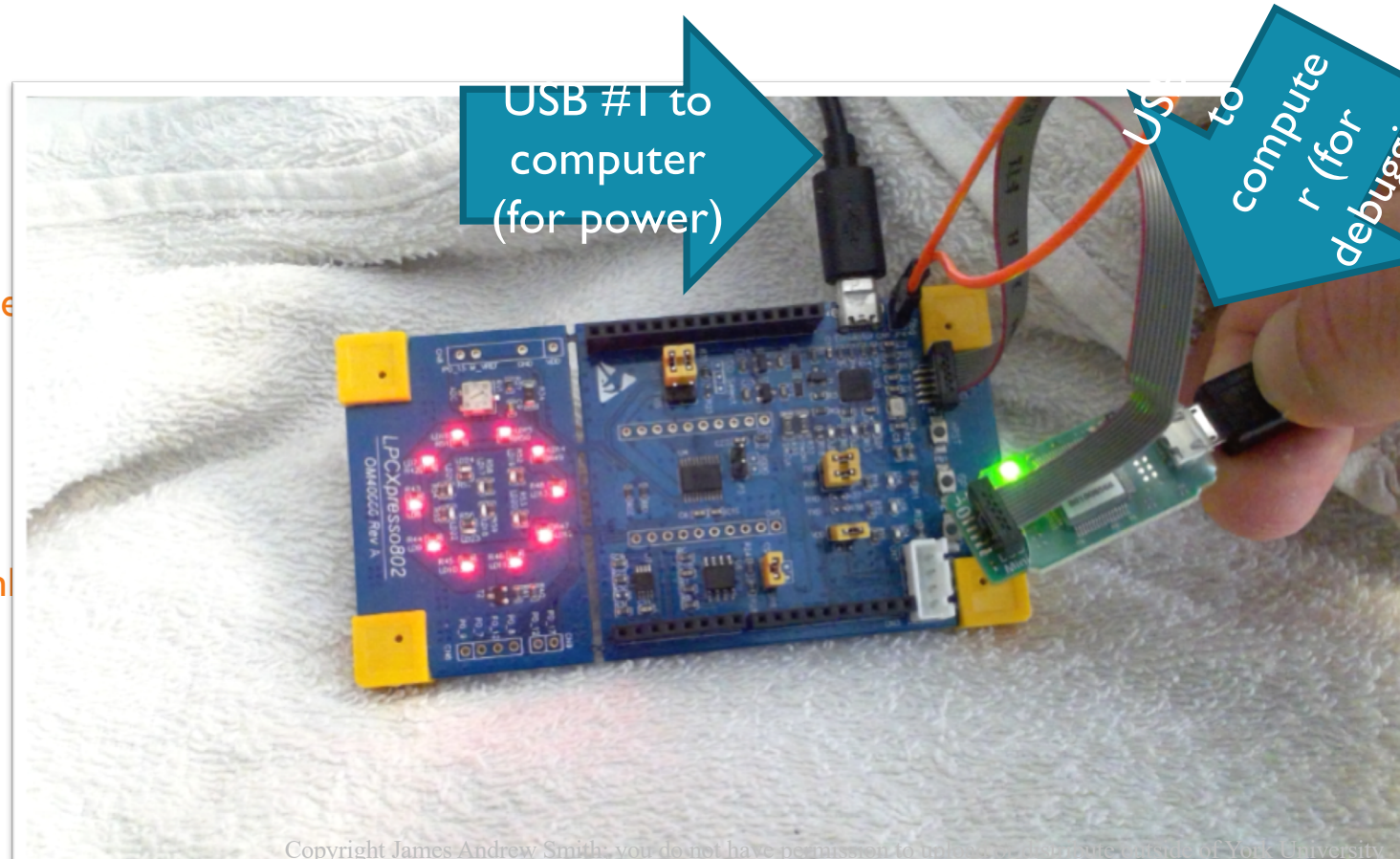
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Bypass the built-in debugger with a JLink

- Step 1

- Jumper “Ext. Dba”

- Step 2

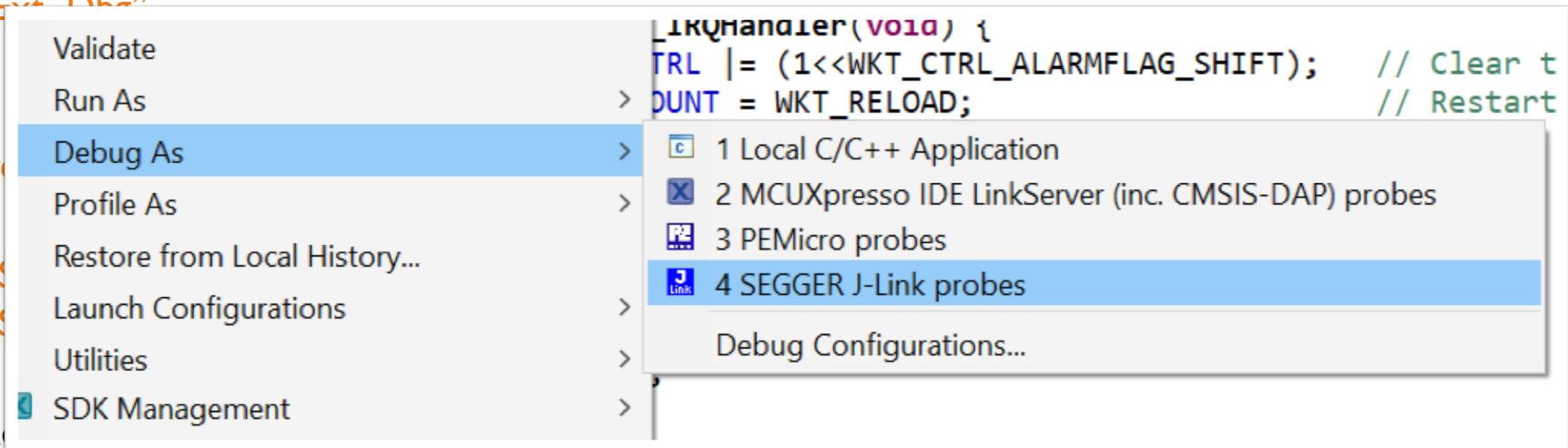
- Connect
- Make sure

- Step 3

- Plug in USB
- Plug in USB

- Step 4

- Download



Step 5: Fix the Bug

Usually, there is some register with a wrongly configured bit in it.

If the problem is obvious, fix that particular register, recompile and download with the Jlink.

If the problem is not obvious, simplify your code and write-compile-debug one line at a time.