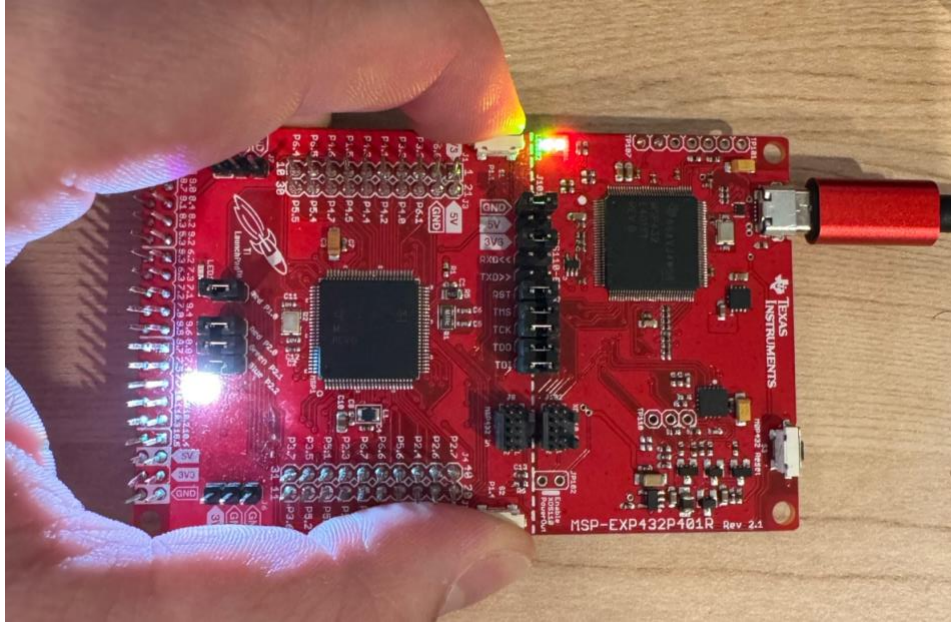


Rick Brophy
ECE1188 Cyberphysical
Dr. Dickerson
Due: 1/23/24

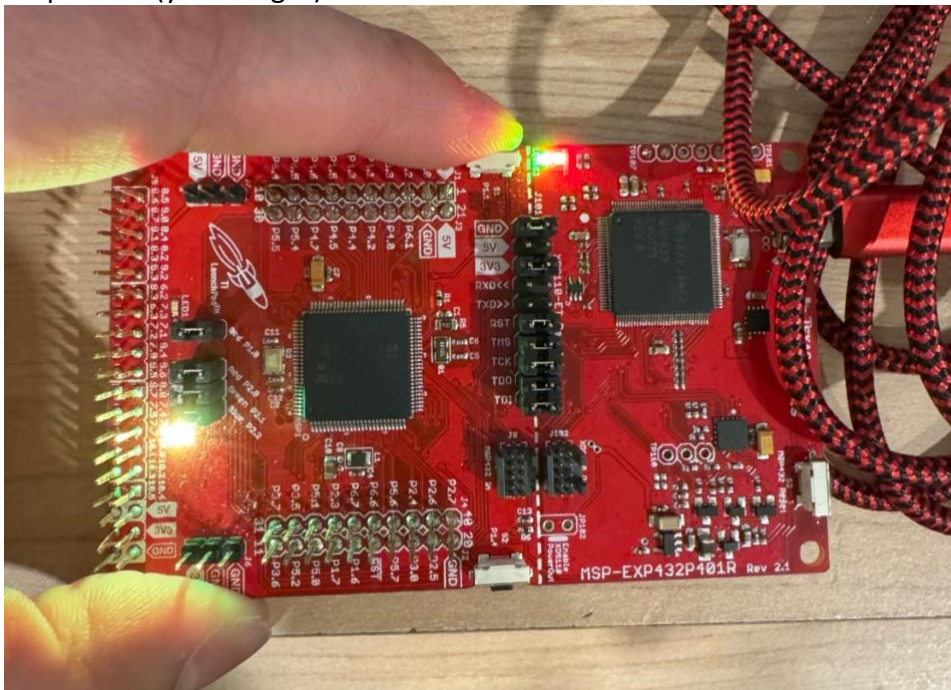
ECE1188 HW2 RTB30

InputOutput_mod

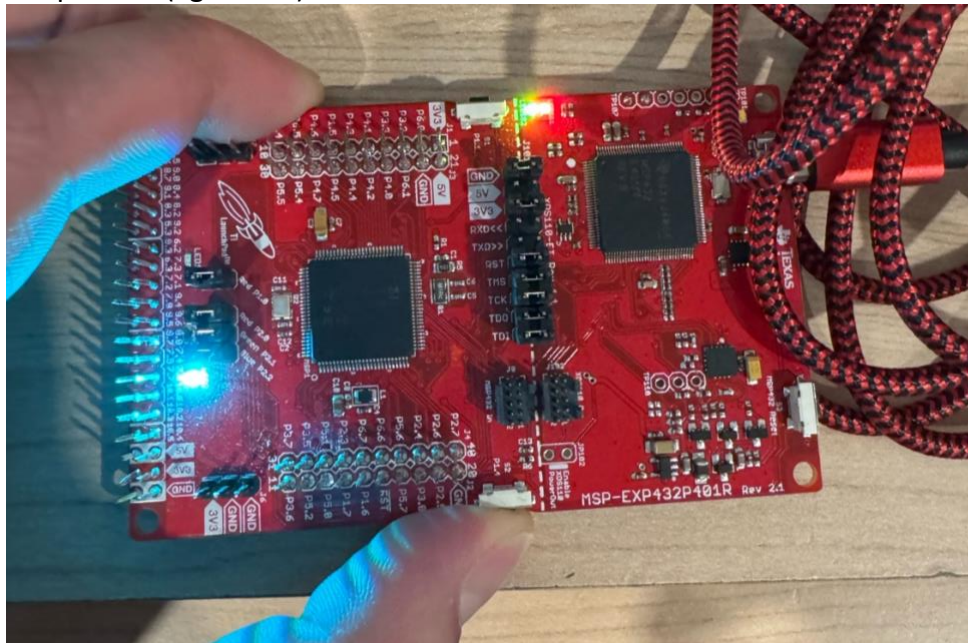
1. SW1 and SW2 are pressed (white)



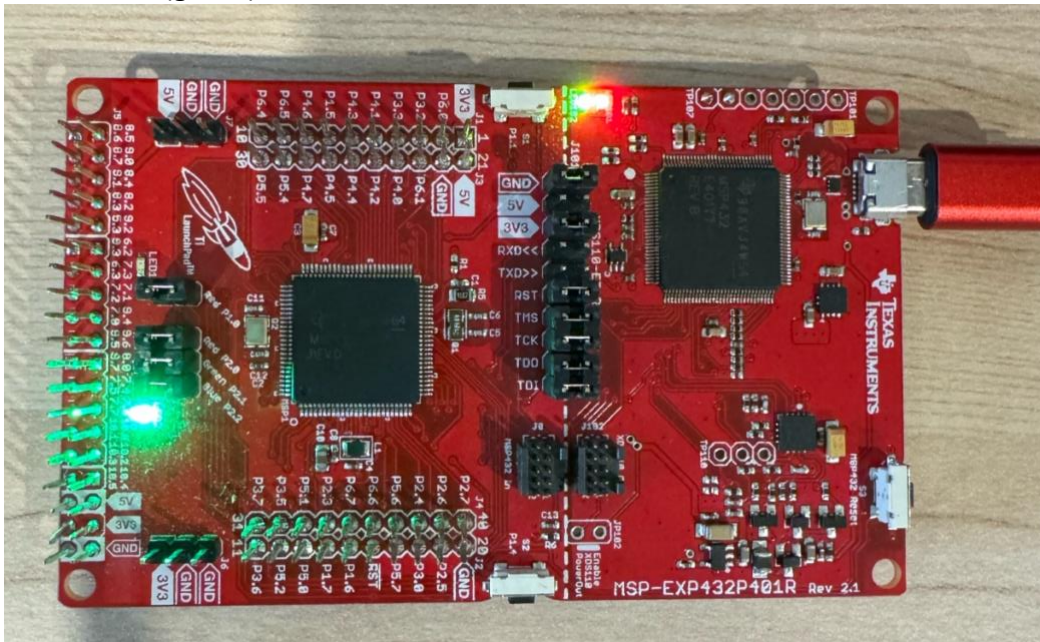
2. SW1 is pressed (yellow light)



- SW2 is pressed (light blue)

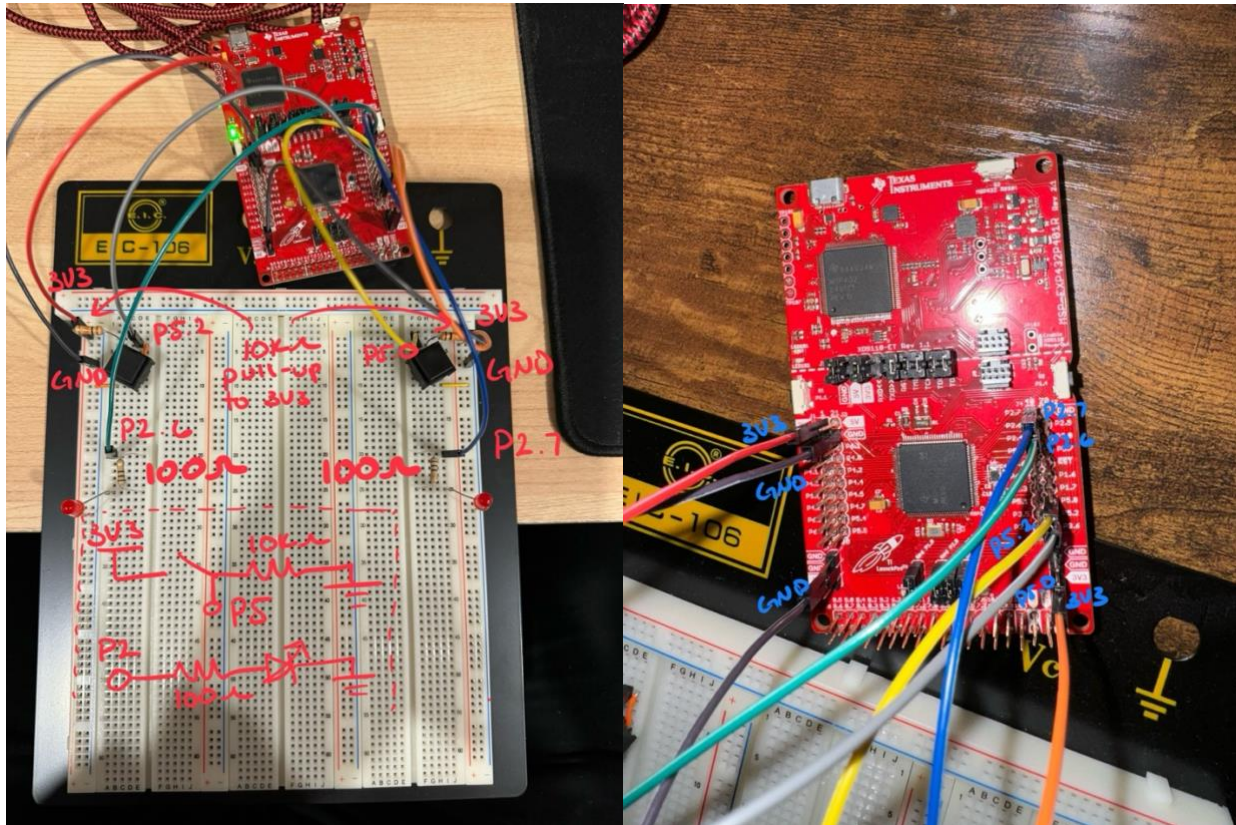


- No switches (green)

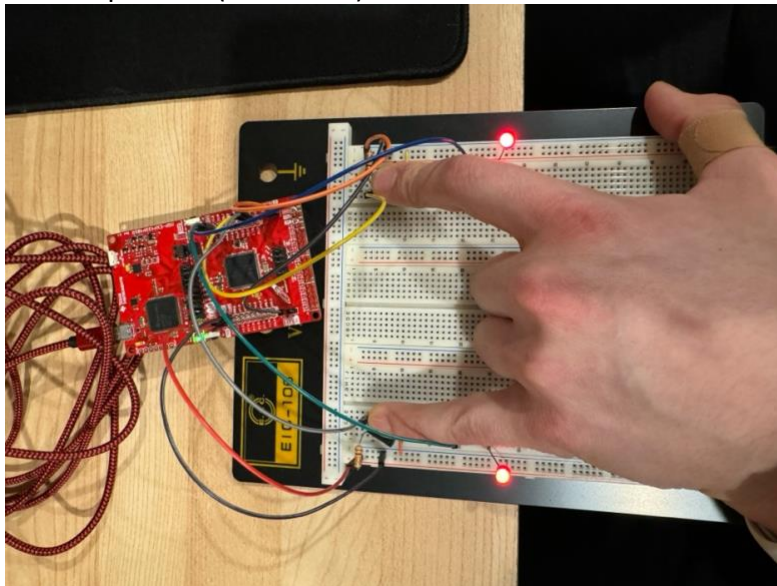


InputOutput_extern

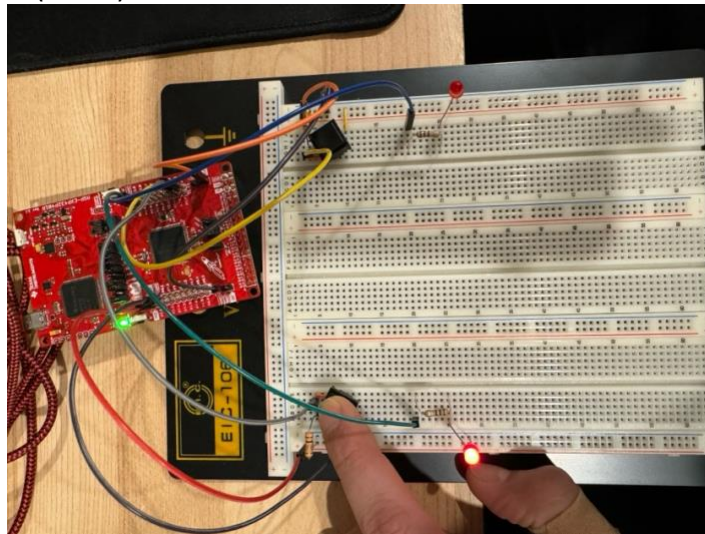
1. Complete set up



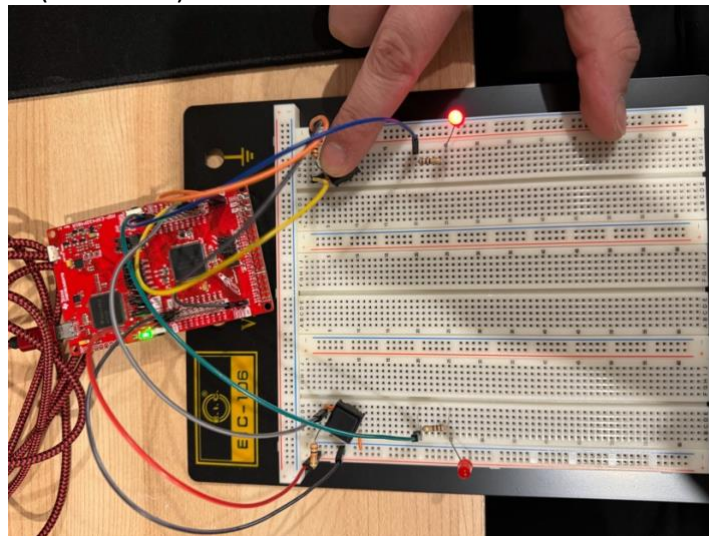
2. SW1 and SW2 are pressed (both LEDs)



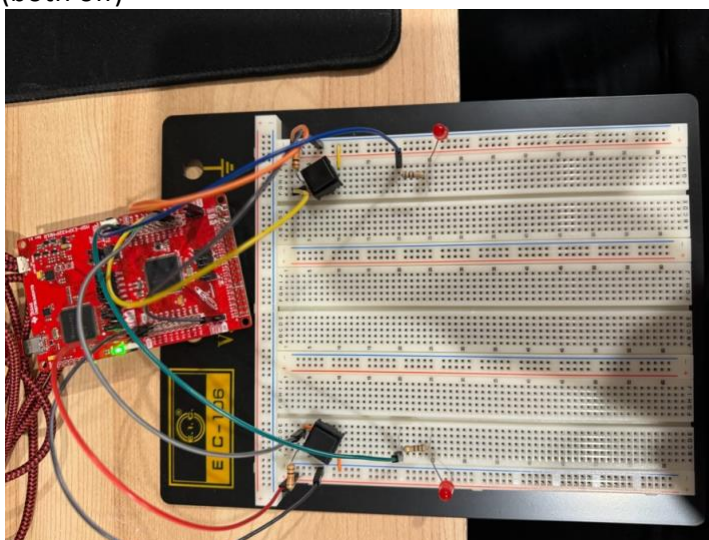
3. SW1 is pressed (1 LED)



4. SW2 is pressed (other LED)



5. No switches (both off)



6. Memory Map

| Port 2 Registers | Memory Address | Initialized Value | Comments |
|------------------|----------------|---|----------------------------------|
| P2SEL0 | 0x4000_4C0B | P2SEL0 &= ~0xC0 = xxxx xxxx & 0011 1111 = 00xx xxxx | Only care ab P2SEL0.6 & P2SEL0.7 |
| P2SEL1 | 0x4000_4C0D | P2SEL1 &= ~0xC0 = xxxx xxxx & 0011 1111 = 00xx xxxx | Only care ab P2SEL1.6 & P2SEL1.7 |
| P2DIR | 0x4000_4C05 | P2DIR = 0xC0 = xxxx xxxx & 1100 0000 = 11xx xxxx | Only care ab P2DIR.6 & P2DIR.7 |
| P2DS | 0x4000_4C09 | P2DS = 0xC0 = xxxx xxxx & 1100 0000 = 11xx xxxx | Only care ab P2DS.6 & P2DS.7 |
| P2OUT | 0x4000_4C03 | P2OUT &= ~0xC0 = xxxx xxxx & 0011 1111 = 00xx xxxx | Only care ab P2OUT.6 & P2OUT.7 |
| | | | |
| Port 5 Registers | Memory Address | Initialized Value | Comments |
| P5SEL0 | 0x4000_4C4A | P5SEL0 &= ~0x05 = xxxx xxxx & 1111 1010 = xxxx x0x0 | Only care ab P5SEL0.0 & P5SEL0.2 |
| P5SEL1 | 0x4000_4C4C | P5SEL1 &= ~0x05 = xxxx xxxx & 1111 1010 = xxxx x0x0 | Only care ab P5SEL1.0 & P5SEL1.2 |
| P5DIR | 0x4000_4C44 | P5DIR &= ~0x05 = xxxx xxxx & 1111 1010 = xxxx x0x0 | Only care ab P5DIR.0 & P5DIR.2 |
| P5REN | 0x4000_4C46 | P5REN &= ~0x05 = xxxx xxxx & 1111 1010 = xxxx x0x0 | Only care ab P5REN.0 & P5REN.2 |