OS's you can have?

Embedded
Board

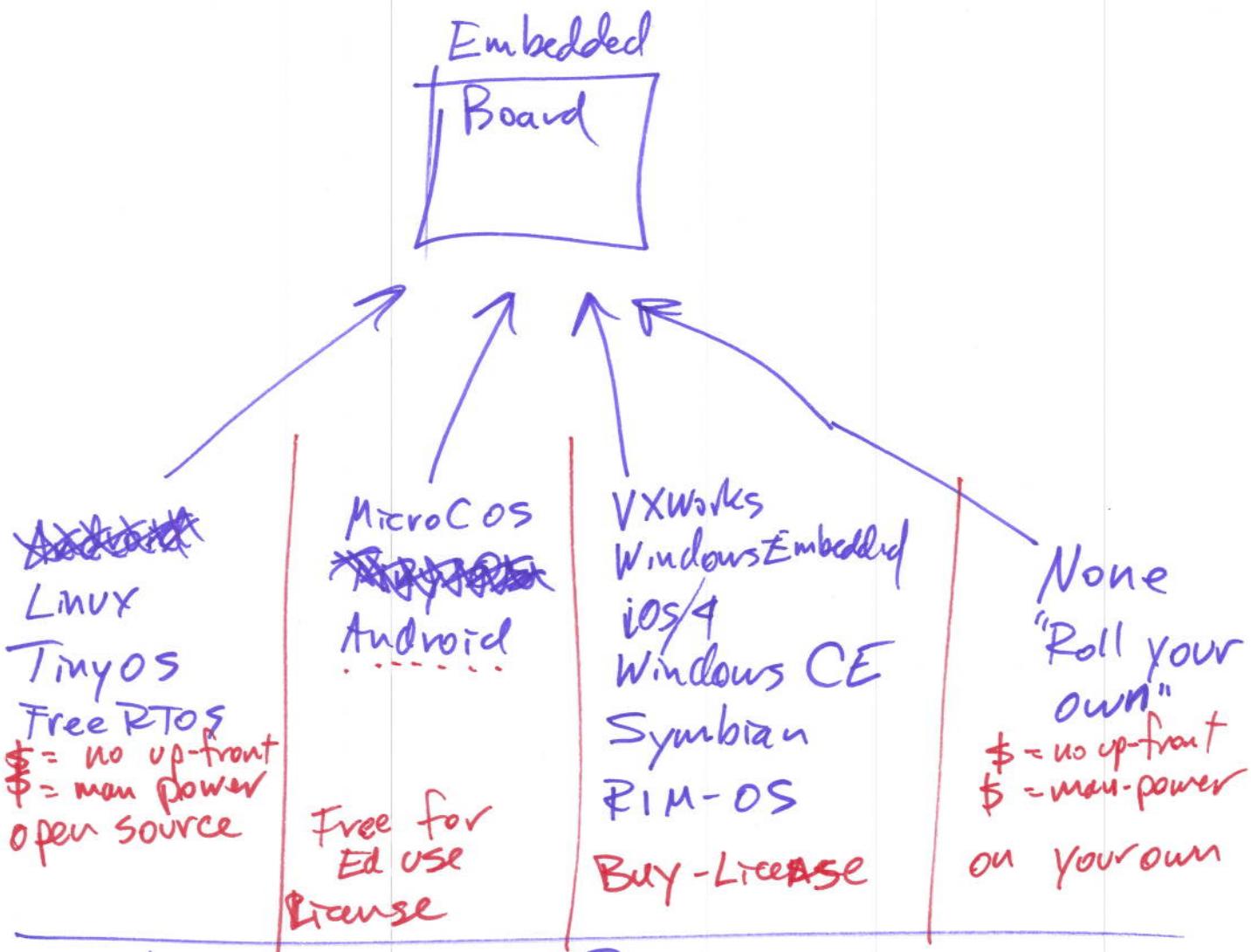| Linux | MicroC OS | VXWorks | None |
Tiny OS	~~Android~~	Windows Embedded	"Roll your own"
Free RTOS	Android	iOS/4	
$ = no up-front		Windows CE	$ = no up-front
$ = man power		Symbian	$ = man-power
open source	Free for Ed use	RIM-OS	on your own
	License	Buy-License	

What is an OS?

Scheduler
Task management
data base
Resource management
Inter-process Communication
Memory Management
File management

Why embrace one OS

* Subject Matter experts, Hdwr/Software

* Support mechanism (libraries, Quality, testing).

* Development tools

* redundant work

Be fair versus	Finish !
Every task process gets only 5 ms ~~eavy~~ before ~~xxxxx~~ it give up control	Finish the task before you start the next one.

🟥 Task1 takes 7ms
🟩 Task2 takes 8ms
⬛ Scheduler takes 2ms ⬅

Be fair   T=0   2   7   9   14 16 18 20 23

Finish!   T=0   2   9   11   19

Quiz 9   3/16/11

1) Name

2) What is today's talk supposed to be about?

3) In 2-3 sentences, describe the differences in RS232/UART Communication between the QSK62P Plus and the RX62N boards. (Lab 3)

Lab 4   Due 3/28

1) Measure   QSK 62P Plus board (Lab2)
   w/no savings implemented — due Friday 5pm

2) Implement Cost/Energy Savings
   Measure ~~XXXX~~ in dormant mode ———— ✓
   Measure in active mode ———— ✓

   Shut down UARTs, ADCs, Unneeded peripherals
   Use interrupts
   Turn of LCD when not needed
   Put whole to sleep until switched pressed
   Time out after __n__ seconds & sleep
   Reduce clock frequency