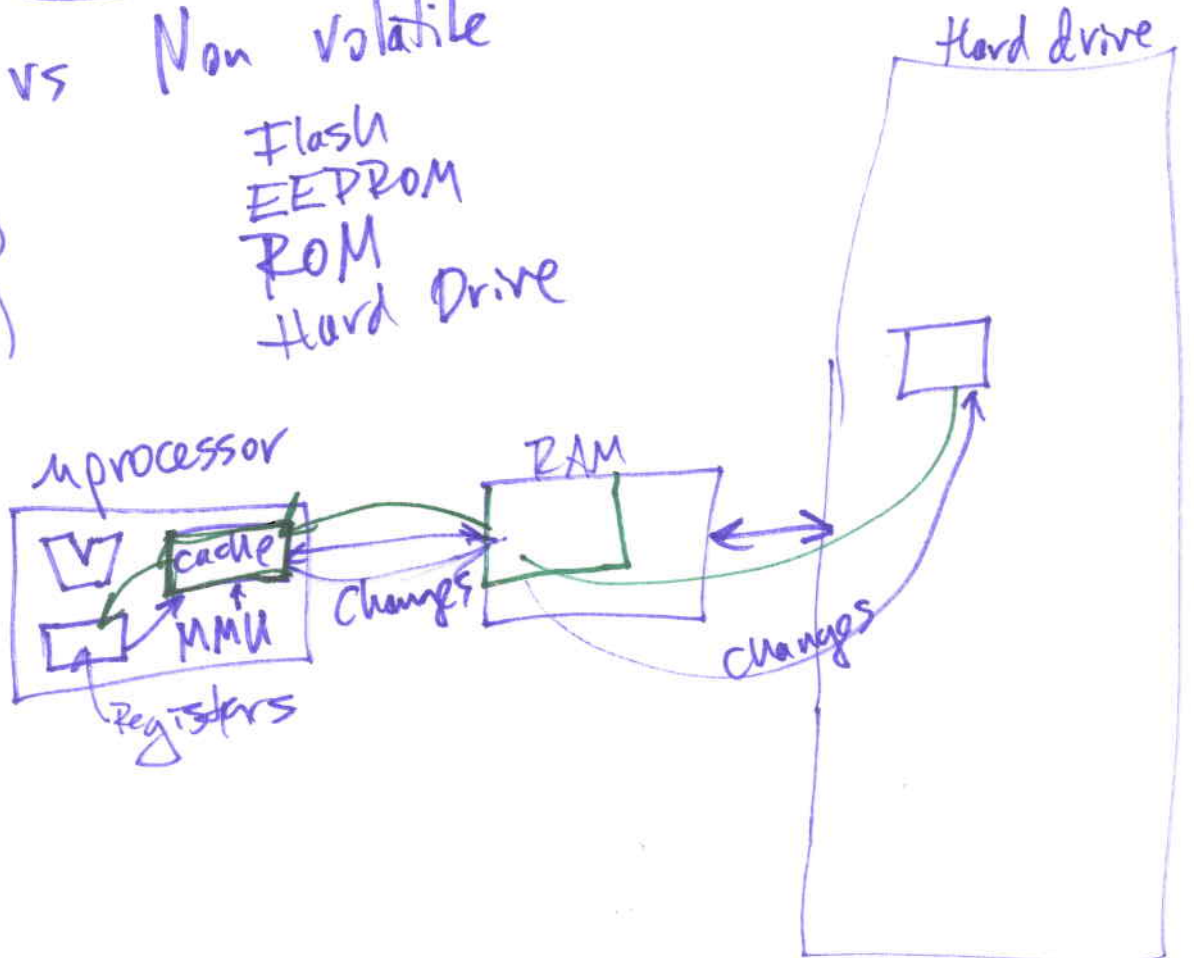
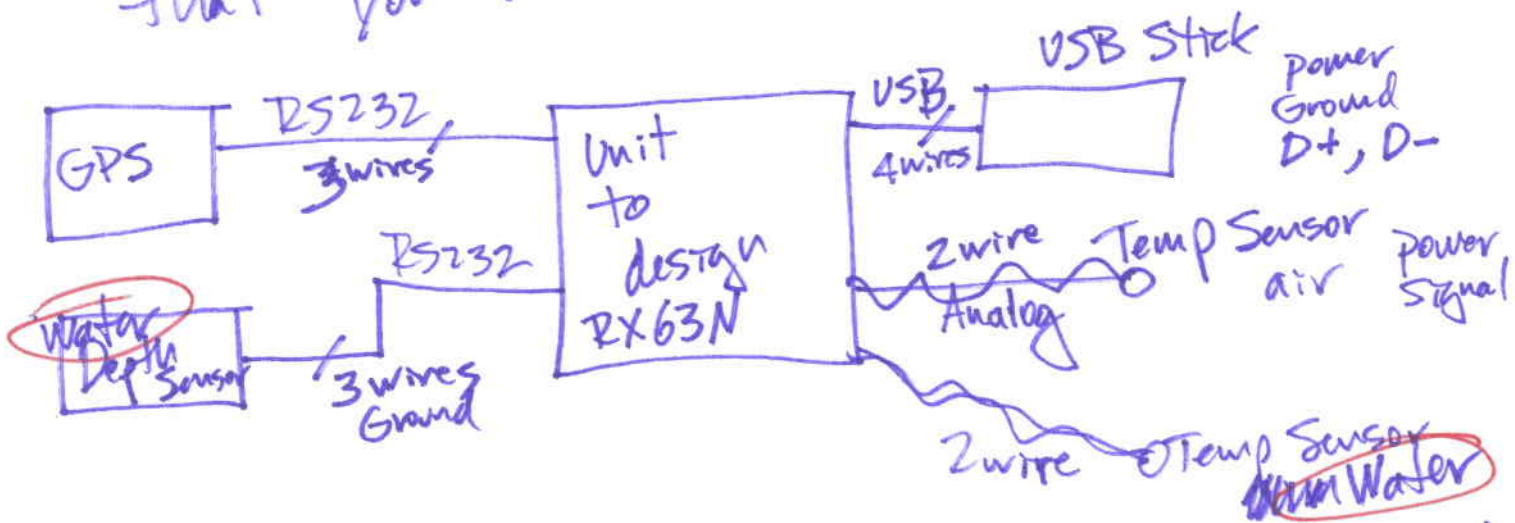


Volatile vs Non volatile
 RAM (SRAM) (DRAM)
 Flash
 EEPROM
 ROM
 Hard Drive



Microprocessor/Micro Controller Heart beat = ②
 CLOCK

With one other person, on a clean sheet of paper, design the following system & identify the peripherals that you need:



- 1) Identify the RX63N peripherals needed (internal)
- 2) Identify all of the data interfaces to the RX63N (exact ports, pins not necessary, just general)
- ③ What do you think this will do? (write a one sentence operational description)

QUIZ 6

Quiz 6 Solution

- 1) Peripherals **5 points**
- 1pt 2 RSPI (RS232, SPI, I²C)
 - 1pt 1 USB
 - 1pt 12 bit or 10 bit ADC (2 ports)
 - 1pt Program Flash, RAM
(Maybe) Data Flash
 - 1pt Clock Generation Circuit

- 2) Data interfaces **4 points**
- 1pt 2 lines GPS RS232
 - 1pt 2 lines Water Depth sensor RS232
 - 1pt 2 lines USB Stick
 - 1pt 2 lines Temp sensors

- 3) Ocean or lake water depth & temp recording device. **1 ~~points~~ points**