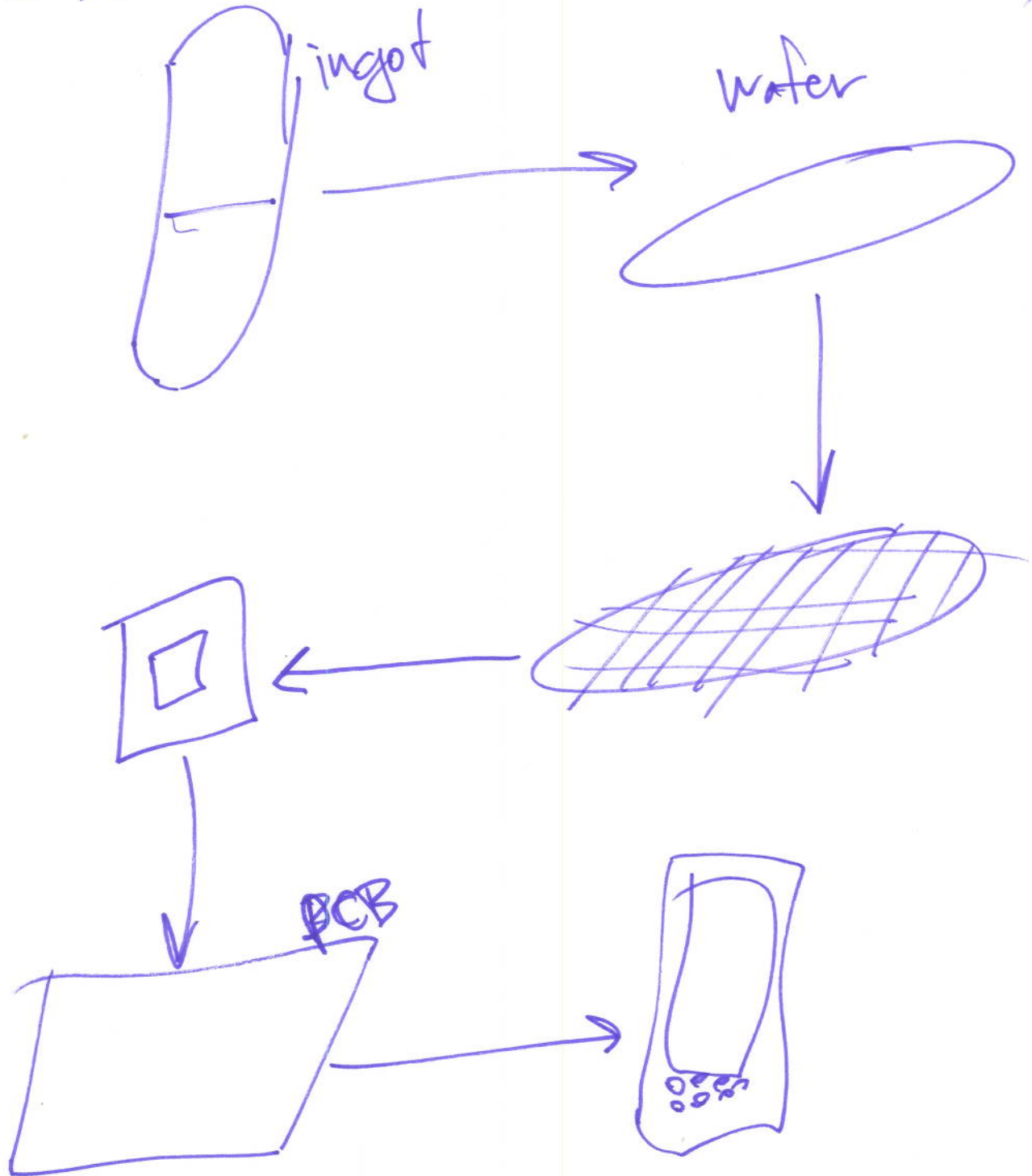


Microcontrollers - What?

Silicon = sand (more or less)



Memory Mapped I/O
Location "Register"

(2)

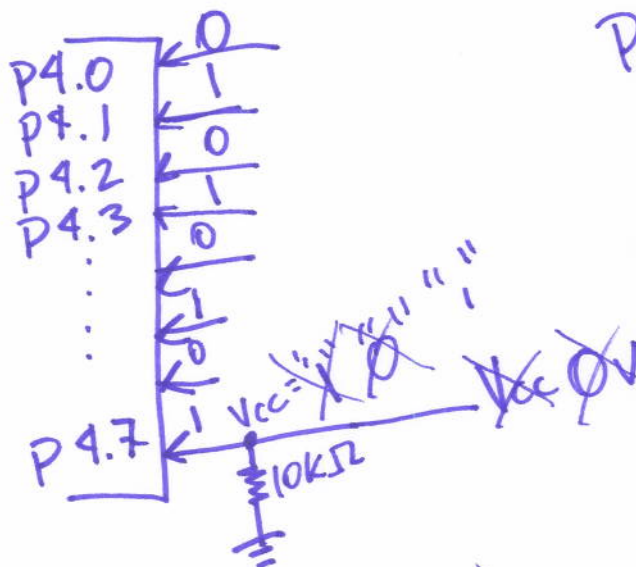
- AO
- AI
- AZ
- DO
- DI
- DZ
- SP
- FB
- PC
- Flags

I/O Ports

Data Direction Register (DDR)
Data Register (DR)

PA	7	6	5	4	3	2	1	0
	1	0	1	0	1	0	1	0

PORT4.DR.BYTE



Pin does not float

"0" = 0V (Ground)

"1" - Vcc 5V, 3.3V, 1.8V

ECGR 4101/5101

LECTURE 2

int x; ← 16 bit number

(3)

X = (int) PORT4.DR.BYTE;

↑
casting

PORT4.DDR.BYTE = 0X00; // PORT 4 IS input
PORTD.DDR.BYTE = 0XFF; // PORT D IS output