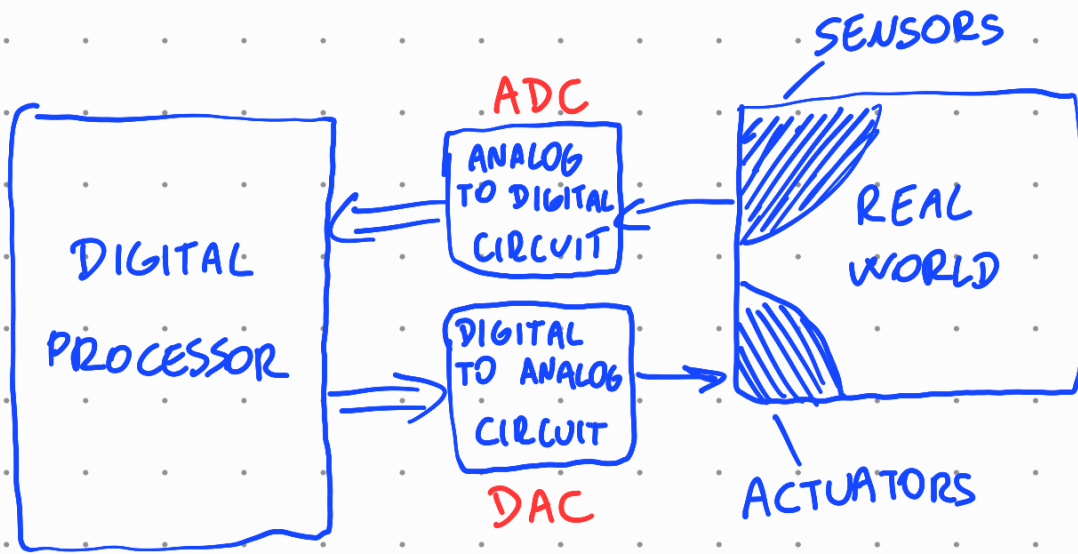


DIGITAL ELECTRONIC CONTROL SYSTEM

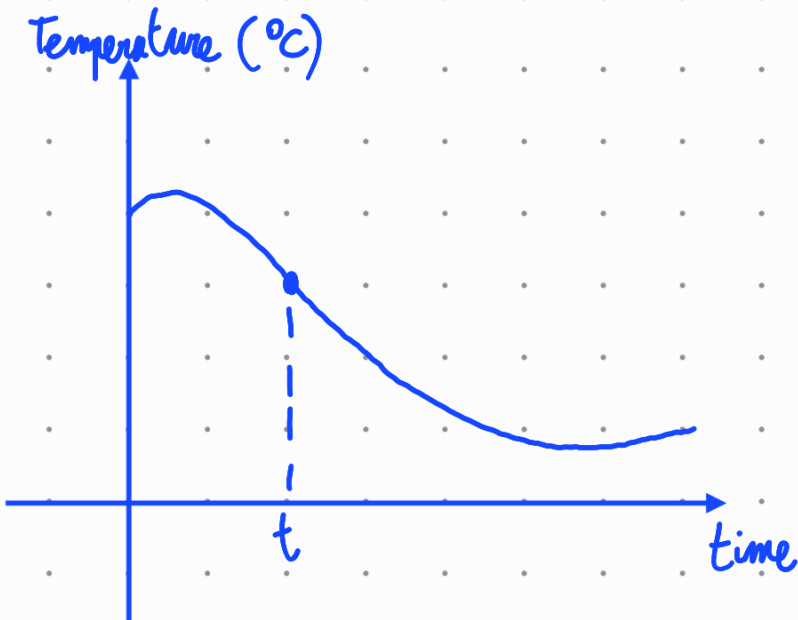


DIGITAL ELECTRONIC CONTROL SYSTEM

WHY NOT,
MECHANICAL?



- 1) SPEED
- 2) AREA
- 3) COST
- 4) POWER



base 10 3 0
 number
 digit

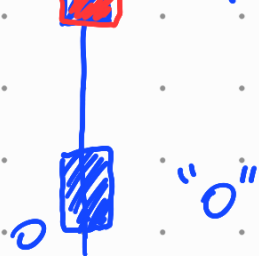
base 2 1 1 1 0
 number
 digit

V_{cc} voltage



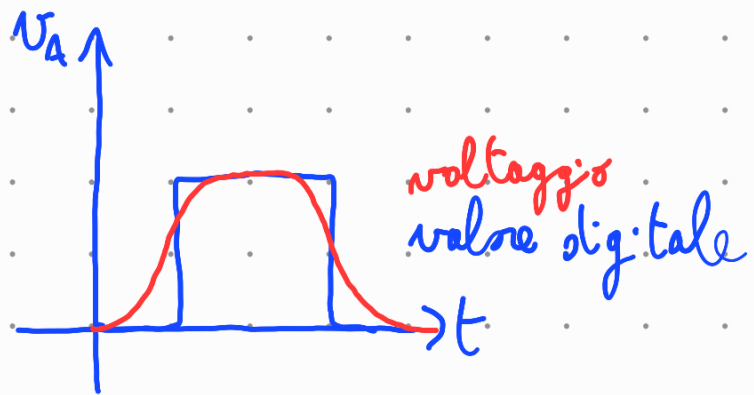
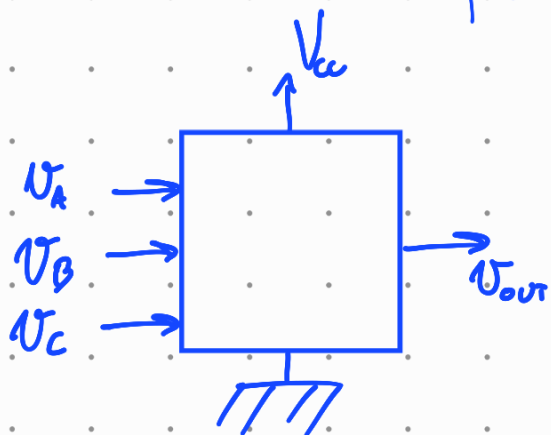
"1"

are defined digital values source to be able



we defined analog values samples to be able to transform analog voltages to digital numbers.

If the analog read value is between the defined interval, then the returned value from the ADC is 1.



RETI COMBINATORIE
 $out = f(input)$

RETI SEQUENZIALI
 $nuovo\ stato = f(stato, input)$
 $out = f(stato)$