

The steps towards a basic CanSat

Going through all this is necessary.

Reading input's

Reading input's

Digital inputs

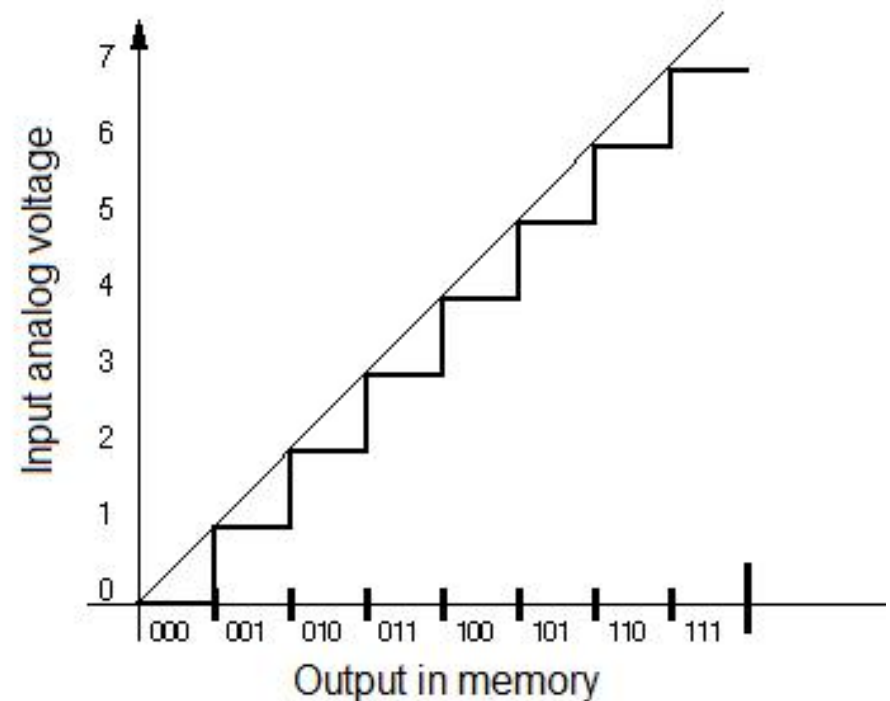
- 0 or 1
- `value = digitalRead(..);`

- $\pm 5V = 1$
- $\pm 0V = 0$

Reading input's

Analogue inputs

- 10 bit analogue to digital converter (ADC)
- 0,1,2,...,1022,1023
- 5V max input
 - 4.88 mV/step
- `value = analogRead(..);`

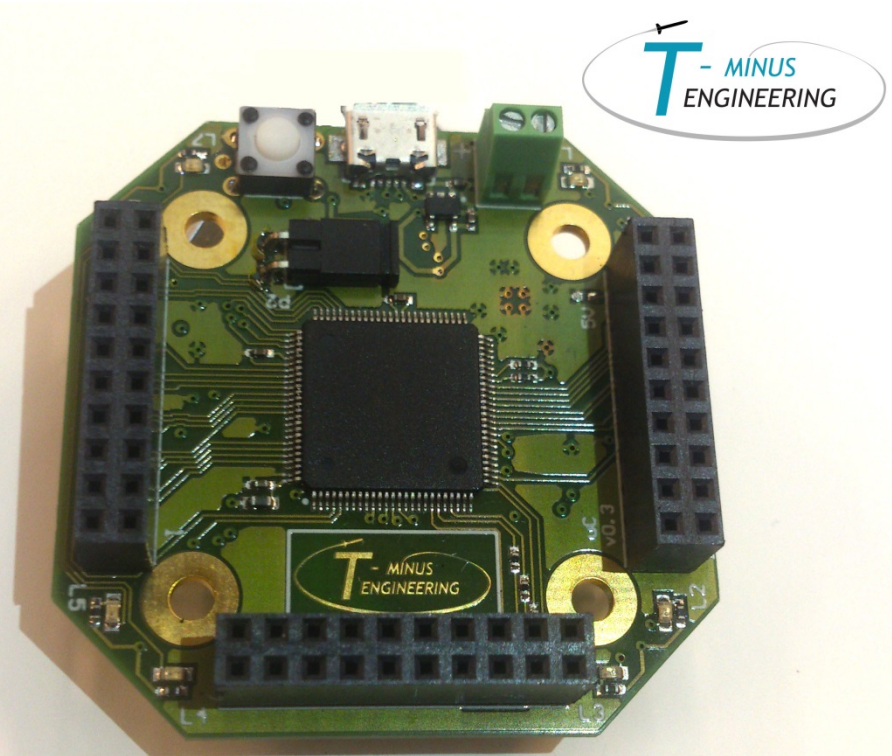


Reading input's

int value

```
value = analogRead(A0);
```

GND	5V
DP53	DP52
AOut1	AOut0
A7	A6
A5	A4
A3	A2
A1	A0
A11	A10
A9	A8
5V	GND

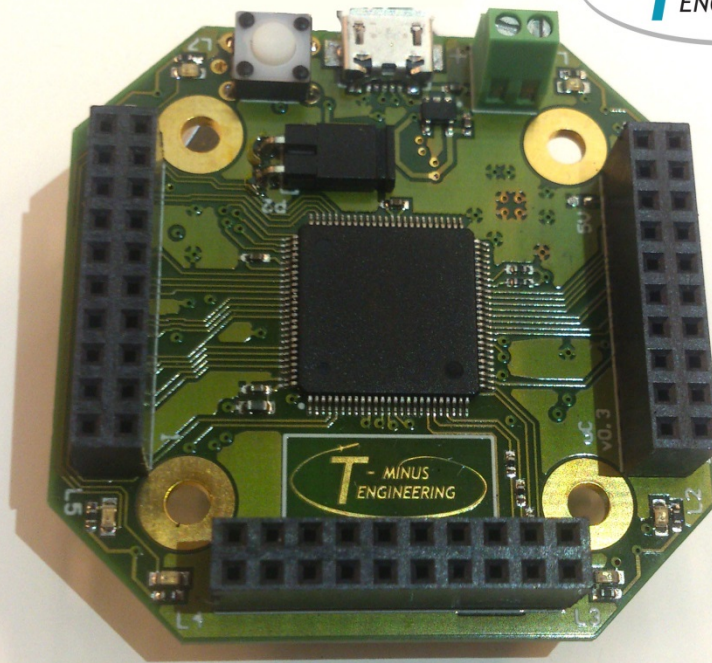


Practical session

- Serial.println(value);
- Use resistor to connect 2 pins
- Test reading
 - 0 and 1 for digital
 - 0 and 1023 for analog



GND	5V
DP53	DP52
AOut1	AOut0
A7	A6
A5	A4
A3	A2
A1	A0
A11	A10
A9	A8
5V	GND



GND	5V
DP15	DP14
DP13	DP12
DP11	DP10
DP9	DP8
DP7	DP6
DP5	DP4
DP3	DP2
DP1	DP0
5V	GND

5V	DP38	DP36	DP34	DP32	DP30	DP28	DP26	DP24	GND
GND	DP39	DP37	DP35	DP33	DP31	DP29	DP27	DP25	5V