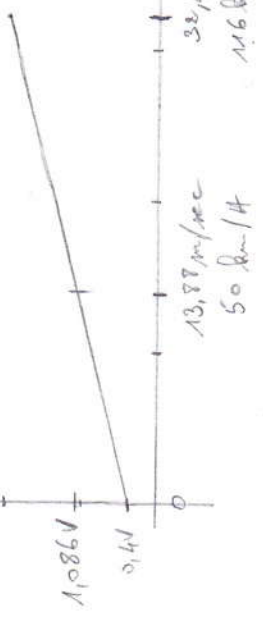


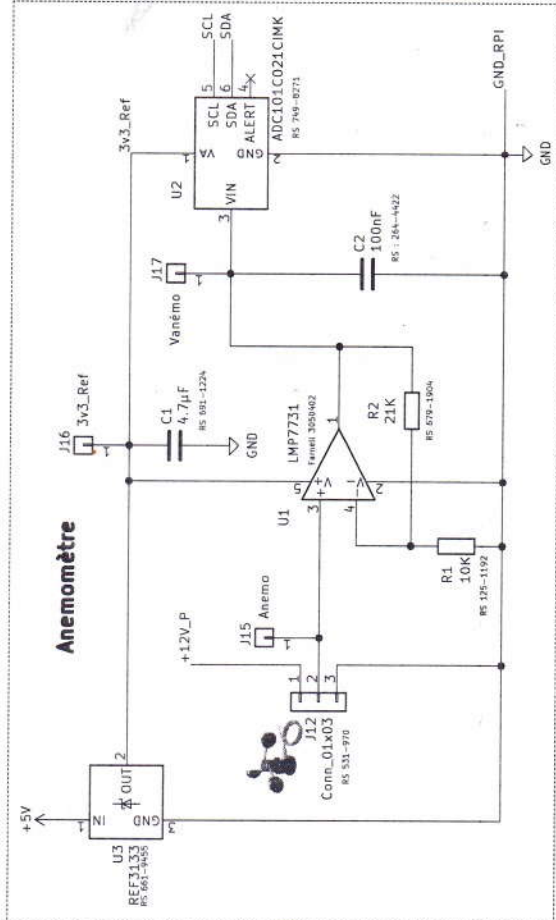
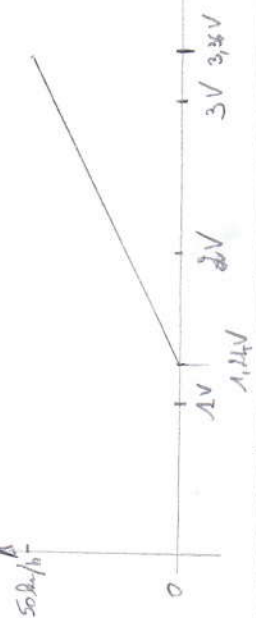
Anémomètre  
 $0 \text{ m/sec} = 0 \text{ km/h} \rightarrow V_{out} = 0,4 \text{ V}$   
 $38,4 \text{ m/sec} = 116,5 \text{ km/h} \rightarrow V_{out} = 2 \text{ V}$



$y = ax + b$   
 $0,4 = a \times 0 + b \rightarrow b = 0,4$   
 $2 = a \times 38,4 + 0,4 \rightarrow a = 49,38 \text{ m}^{-1}$   
 $50 \text{ km/h} = \frac{50000}{3600} \text{ m/sec} = 13,88 \text{ m/sec}$   
 $V_{out} = 0,4938 \times 13,88 + 0,4 = 1,086 \text{ V} \approx 50 \text{ km/h}$

$V_{aném} = V_{out \text{ capteur}} \times \left(1 + \frac{R_2}{R_1}\right) = 3,1 \times V_{out \text{ capteur}}$   
 Si  $V_{out \text{ capteur}} = 0,4 \text{ V} \rightarrow V_{aném} = 1,24 \text{ V}$   
 Si  $V_{out \text{ capteur}} = 1,086 \text{ V} \rightarrow V_{aném} = 3,36 \text{ V}$

Calculer la vitesse à partir de la tension  $V_{aném}$



$y = ax + b \quad x = 1,24 \rightarrow 0 = ax + b \rightarrow b = -a \times 1,24$   
 $x = 3,36 \rightarrow 50 = (3,36 \times a) - (1,24 \times a)$   
 $\rightarrow a = \frac{50}{2,12} = 23,58$   
 $b = -a \times 1,24 = -29,24$   
 $\rightarrow V_{itesse \text{ Vent}} = 23,58 \times V_{aném} - 29,24$

William.R., Nathan.N., Theo.R.  
**BTS\_SN**

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