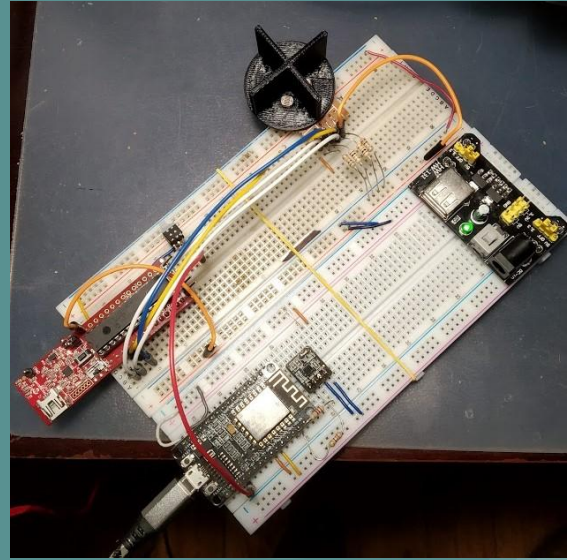


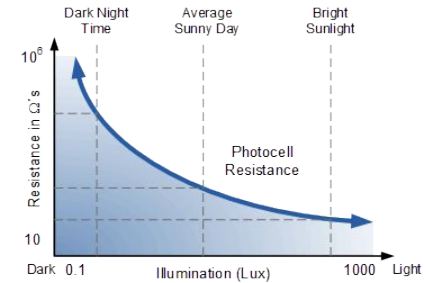
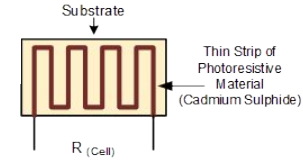
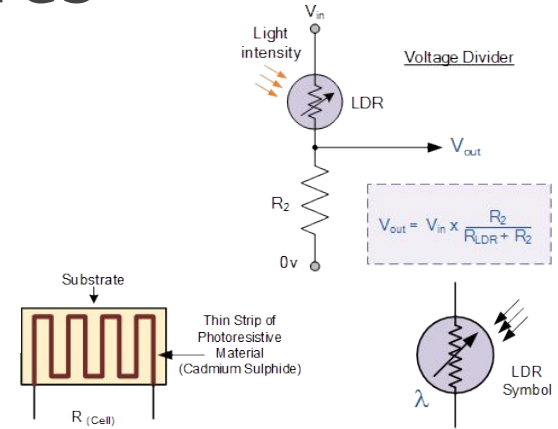
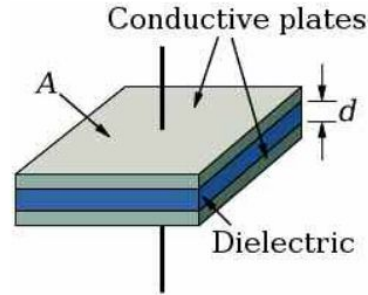
Monitorização Ambiental

Mini-Projecto Sensores Inteligentes



Funcionamento Dos Sensores

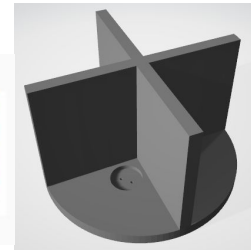
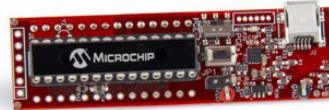
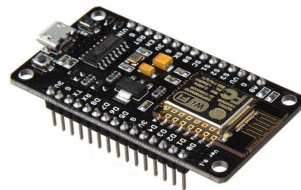
two identical transistors are operated at a constant ratio of collector current densities, the difference in their base-emitter voltage is proportional only to absolute temperature. Other sensors are based on the behavior of the base-emitter voltage, V_{BE} , of a diode-connected transistor, which varies inversely with its temperature. The rate at which this voltage varies is a very consistent $-2 \text{ mV}/^\circ\text{C}$, but the absolute value of V_{BE} varies from transistor to transistor. Compensating for this variation involves comparing V_{BE} at different values of I_E .



Ponto de Partida

Sensores - SHT21 & LDR

Placas de Desenvolvimento:
PIC24 ESP8622 Raspberry Pi





Contribuições do Grupo

<u>Miguel</u>	<u>Luis</u>
PIC24	NodeRED
Arduino	Arduino
Instalação de Raspberry PI	R&D
Trabalhos diversos	Trabalhos diversos