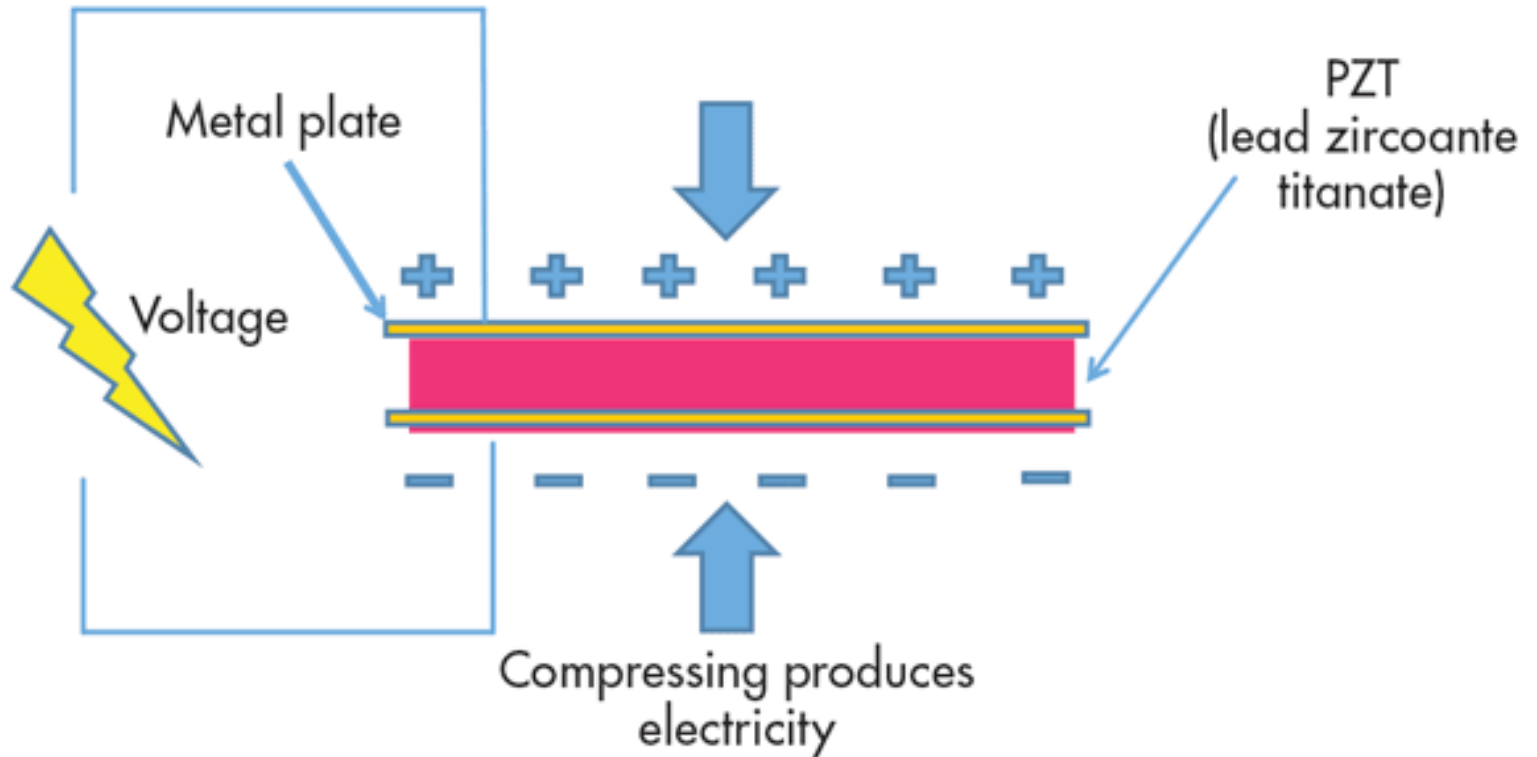


PROYECTO FINAL CURSO IN-57

por Leopoldo Mosquera (IES Alpajés)

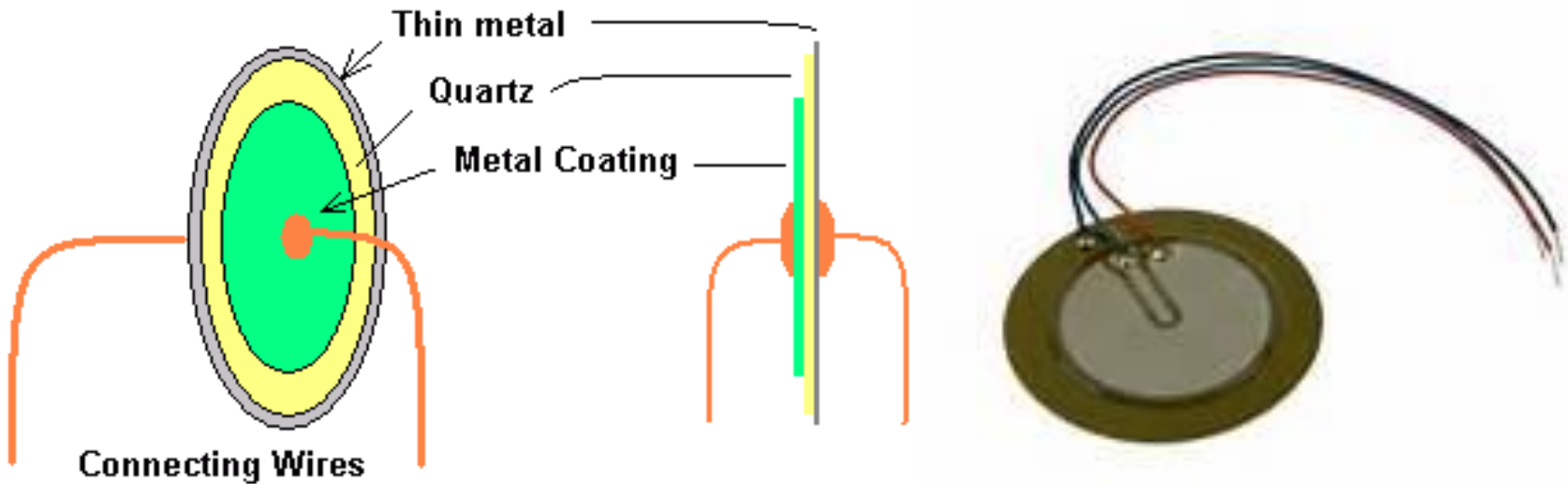
[VER PREZI](#)

What is the “piezoelectric effect”?



It is the ability of certain materials to generate an electric charge in response to applied mechanical stress

How does a piezoelectric look like?

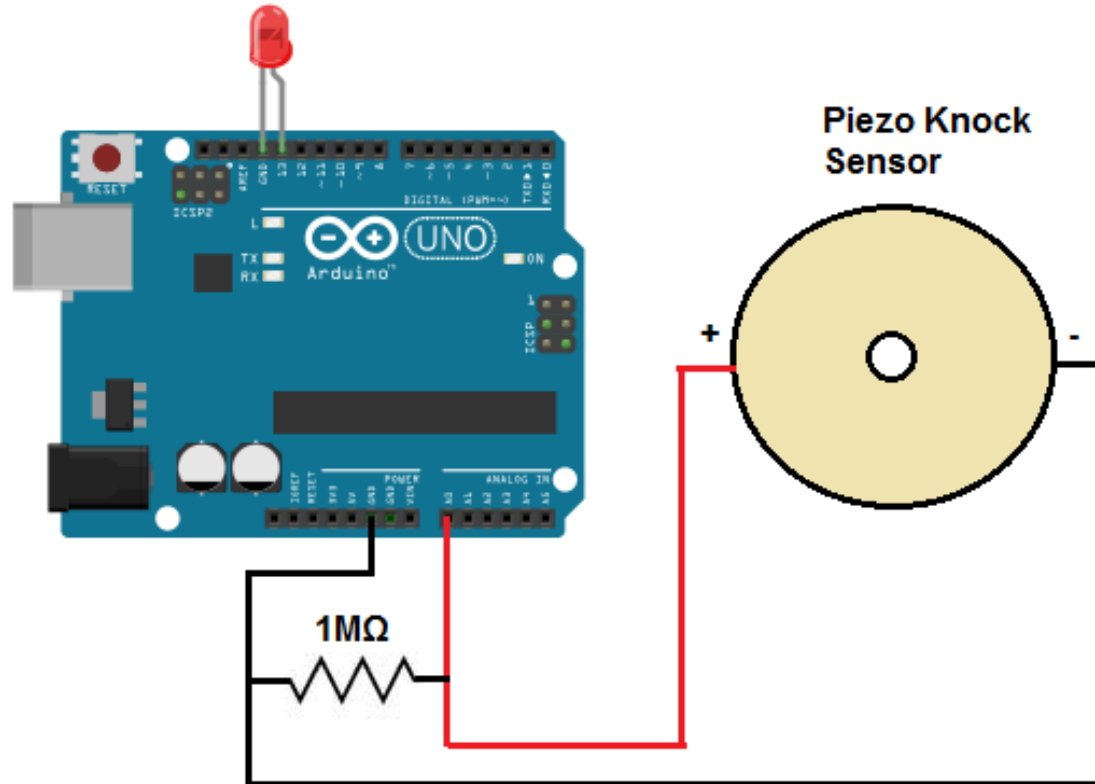


Which are some possible applications for a piezoelectric sensor?

Is it a good sensor to detect pressure or vibration changes?

Could we connect it to an Arduino board to activate an output?

The piezoelectric & Arduino



FIRST TASK: light a LED knocking a piezoelectric sensor
(go to Arduino IDE /archivos/ ejemplos/ sensors/ Knock)

POSSIBLE OUTLINE FOR A PROJECT

- Make an original device using some piezo-sensors connected to an Arduino board to detect sound waves from a loudspeaker.
- The output is composed by a minimum of three LEDs
- Try to modify the code of the basic example to make it more sensitive or to change the Serial message
- Open the example “Control/ Arrays” and put the code inside your program ¿What is the result?
- Open the example “Display/ barGraph” and put the code inside your program ¿What is the result?
- Try to connect two piezos and change the program