

USARE ARDUINO PER CONTROLLARE IN MANIERA INTELLIGENTE GLI APPARATI ELETTRICI

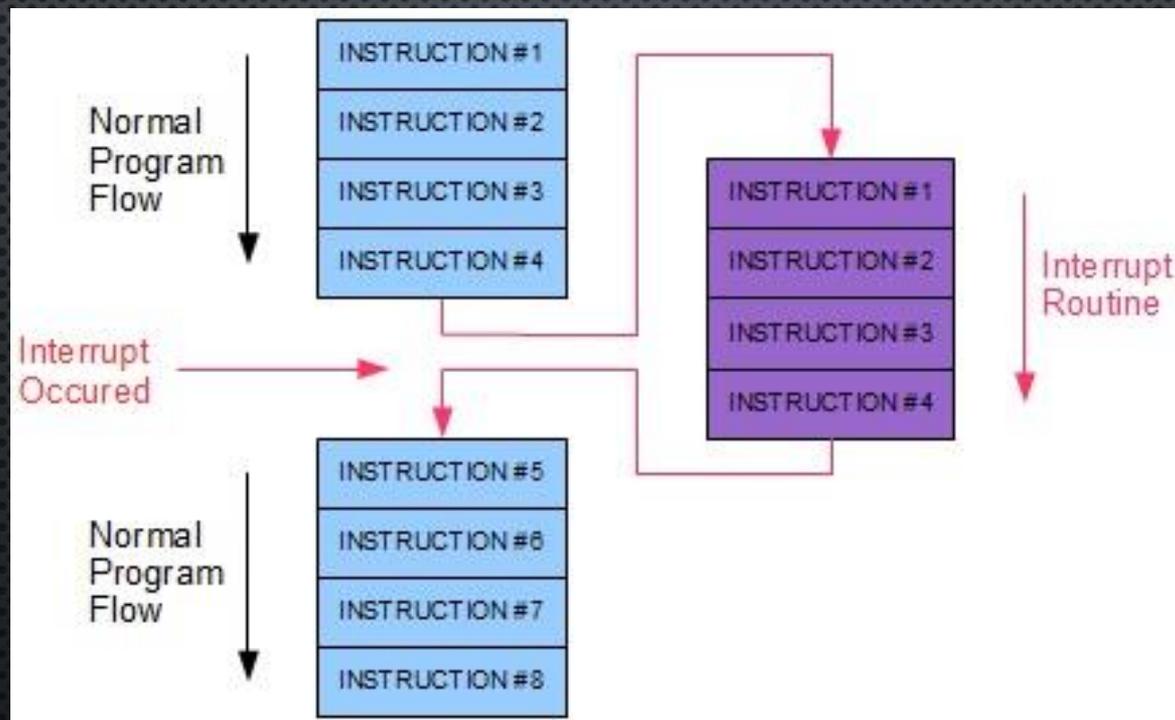
RICCARDO SCASSEDU

RICCARDO.SCASSEDU@GMAIL.COM

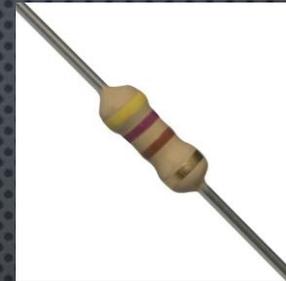
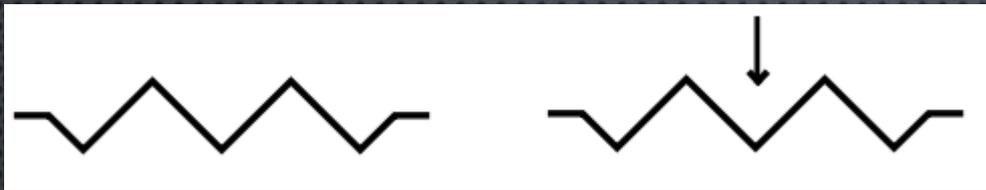
LISTA DELLA SPESA

- MICROCONTROLLORE ARDUINO COMPATIBILE
- FOTOCELLULA
- SHIFT REGISTER SERIE 595
- DISPLAY LCD 16*2
 - NPN TRANSISTOR
 - TRIMMER
- RELE'
- BOTTONI A PRESSIONE
- RESISTENZE QB

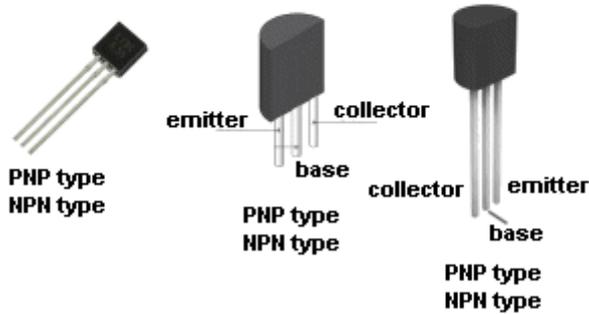
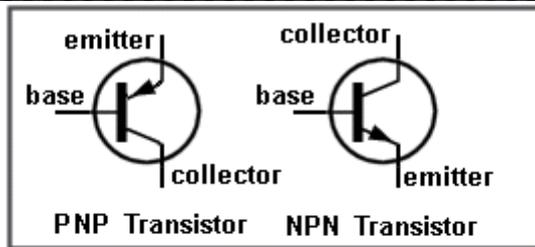
COSA È UN INTERRUPT?



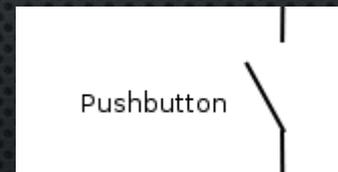
RESISTENZA - TRIMMER



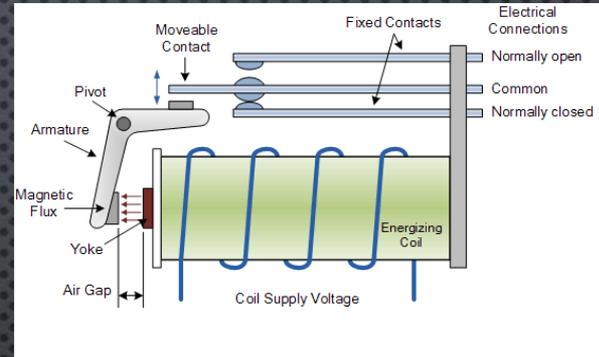
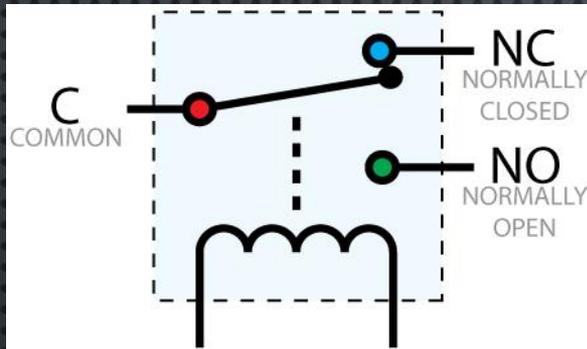
NPN TRANSISTOR



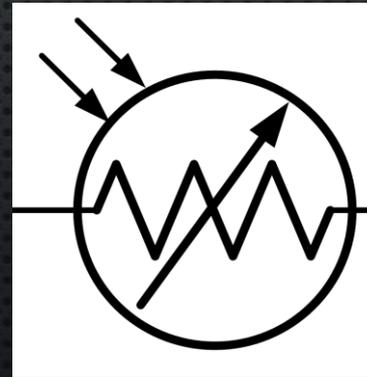
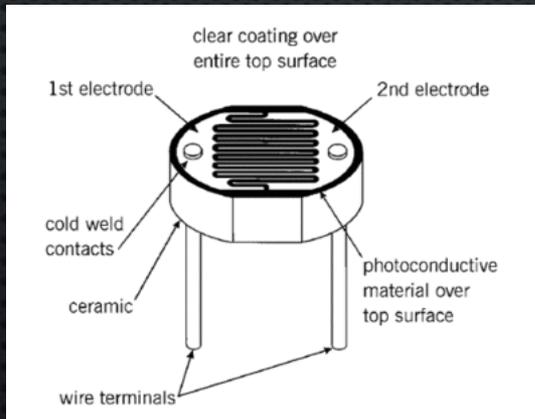
BOTTONE A PRESSIONE



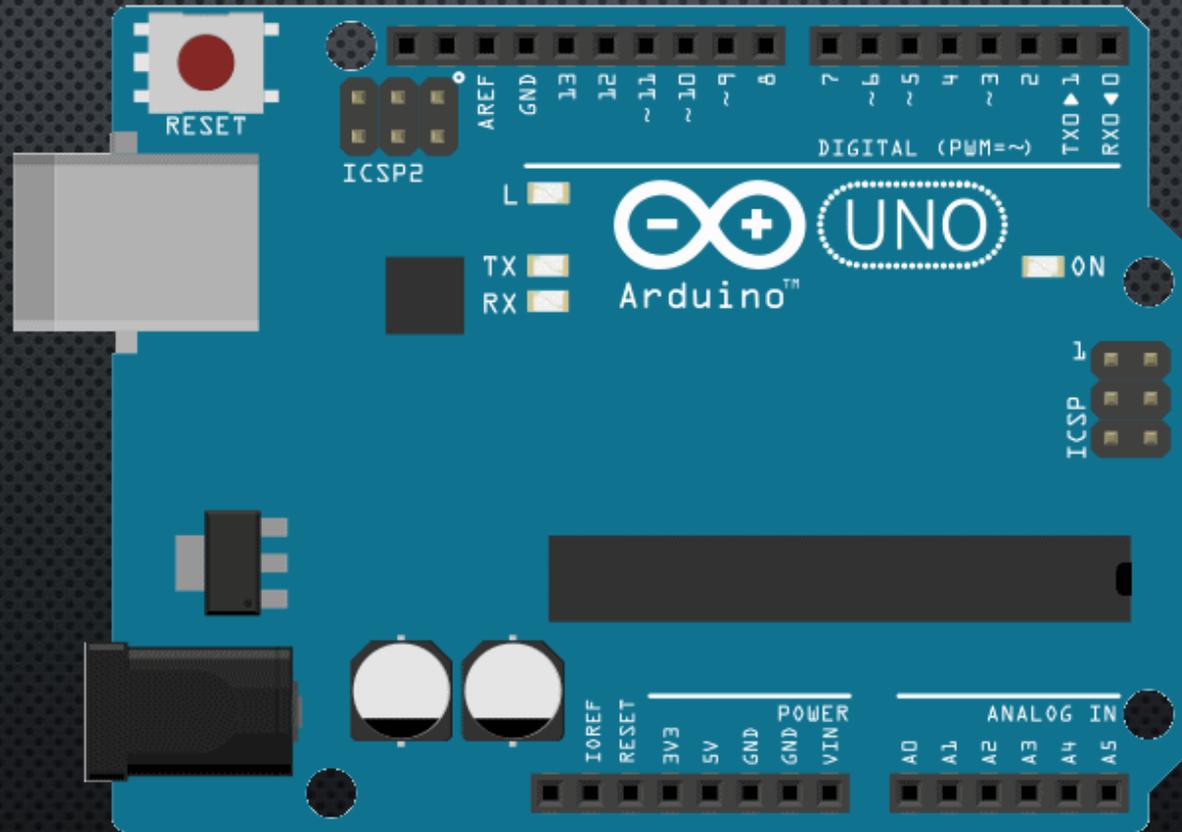
RELE'



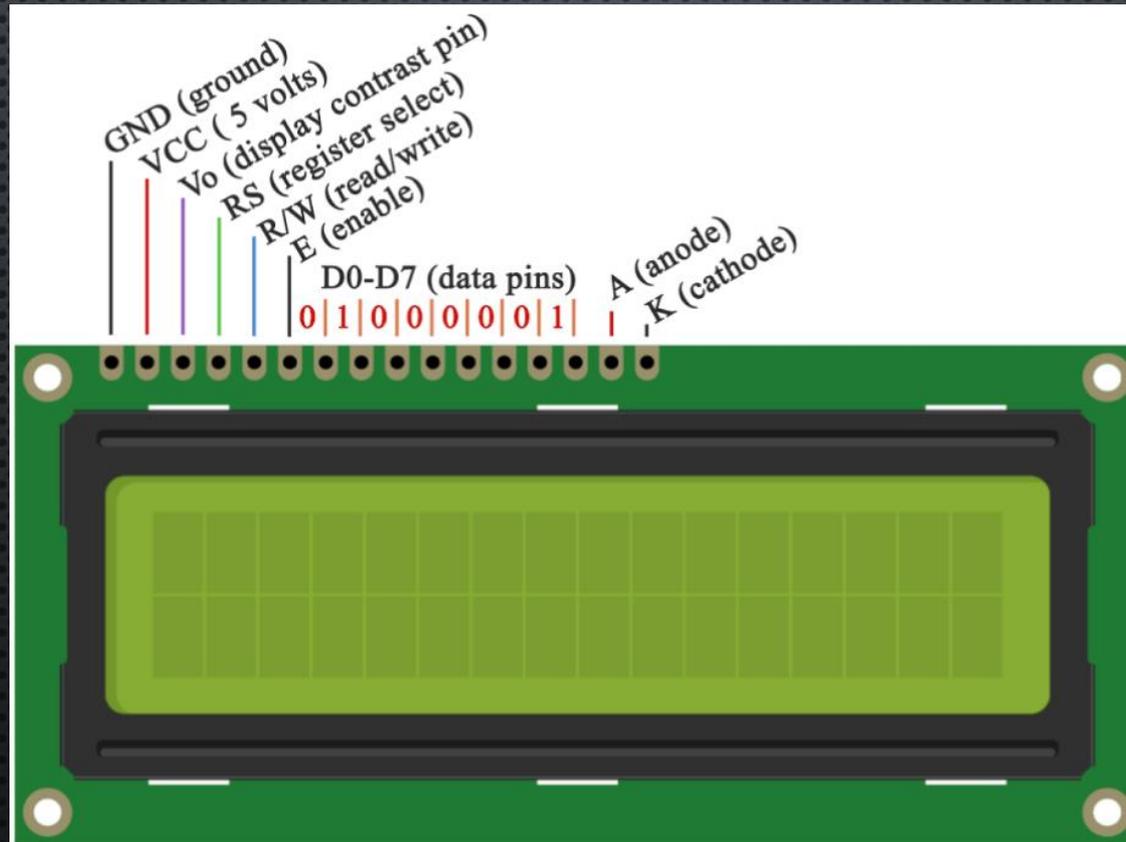
FOTOCPELLULA



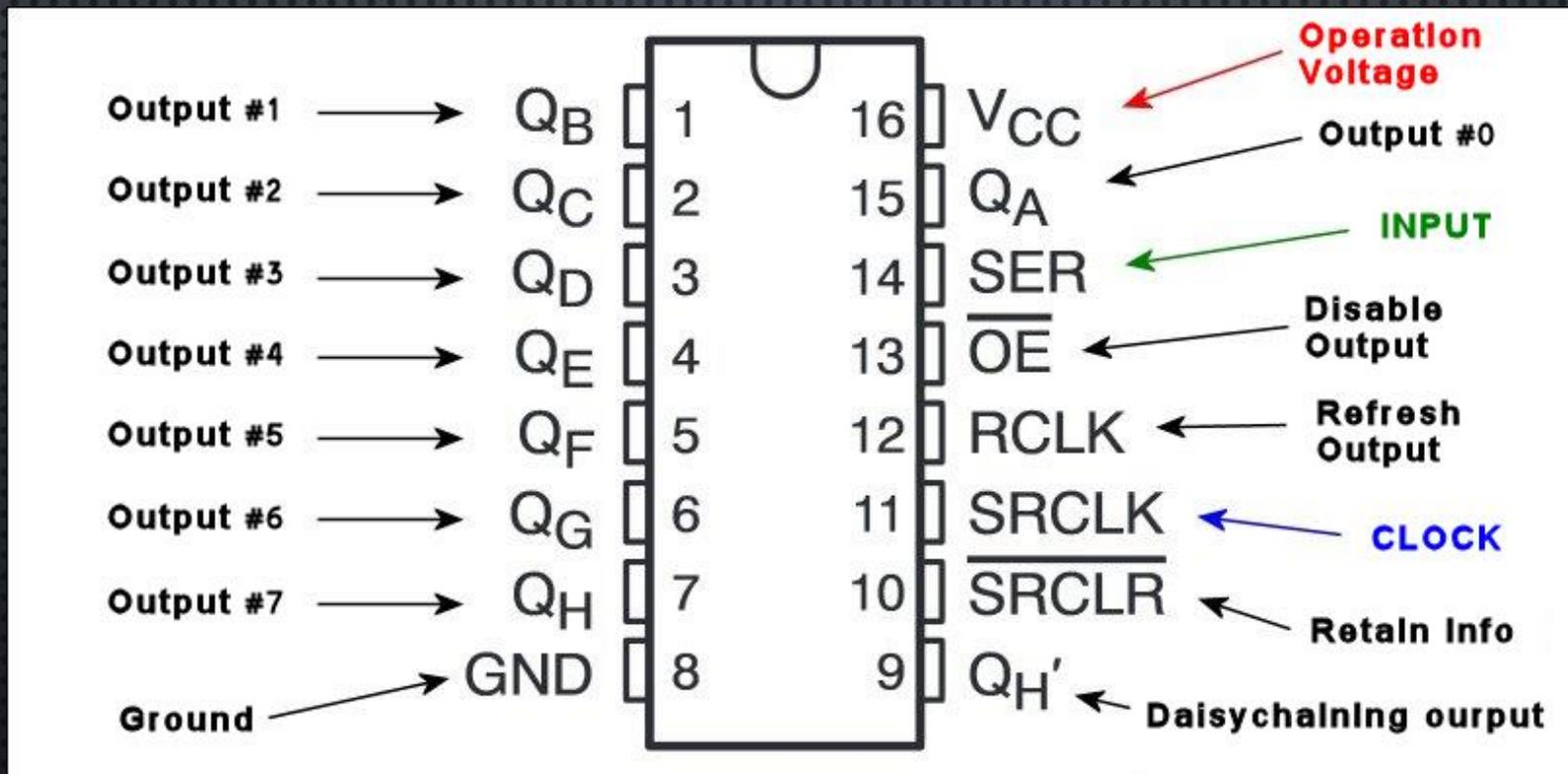
ARDUINO UNO



LCD DISPLAY



595 SHIFT REGISTER



L'IDEA

UTILIZZARE LA FOTOCELLULA PER RILEVARE LA QUANTITÀ DI LUCE PRESENTE: E QUALORA QUESTA SIA SOTTO UNA SOGLIA (IMPOSTABILE) ATTIVARE IL RELÈ.

MOSTRANDO LA LETTURA CORRENTE E LA SOGLIA IMPOSTATA SUL DISPLAY LCD.

PROCEDURA

- CABLARE IL «MODULO LCD»
- CABLARE I BOTTONI E LA FOTO RESISTENZA
- CABLARE IL RELÈ
- SCRIVERE IL CODICE
- TEST
- PROFIT

