

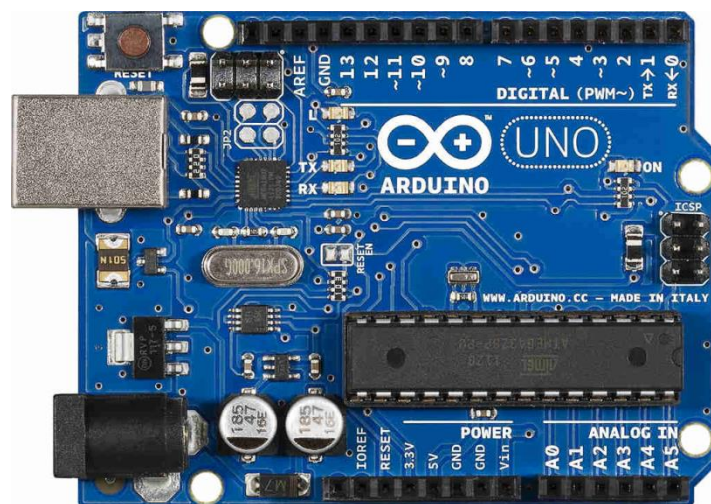
## Carbon Monoxide Sensor

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### ABSTRACT

A carbon monoxide sensor has been constructed using an Arduino UNO microcontroller with added peripherals. The goal of this study and project is to advance toxic gas safety and allow for installation of the sensor in both industrial and domestic environments. Some of the novel aspects of this sensor are the ability to communicate with an Apple iOS device through Bluetooth to transmit the sensed carbon monoxide levels and the addition of an onboard breadboard allows for very diverse future expansion of the project. The hopeful outcome of the research done is to decrease the potential harm caused by carbon monoxide as a toxic gas and significantly reduce accidental fatalities caused by carbon monoxide, which is also dubbed “The Silent Killer”.



**Figure 1.** Arduino UNO Board

K Khalaf, Carbon Monoxide Sensor, *Proc. 13<sup>th</sup> School Conf. for Annual Research Projects*, V F Ruiz (Ed), pp. xx-yy, University of Reading, 3rd June 2014.