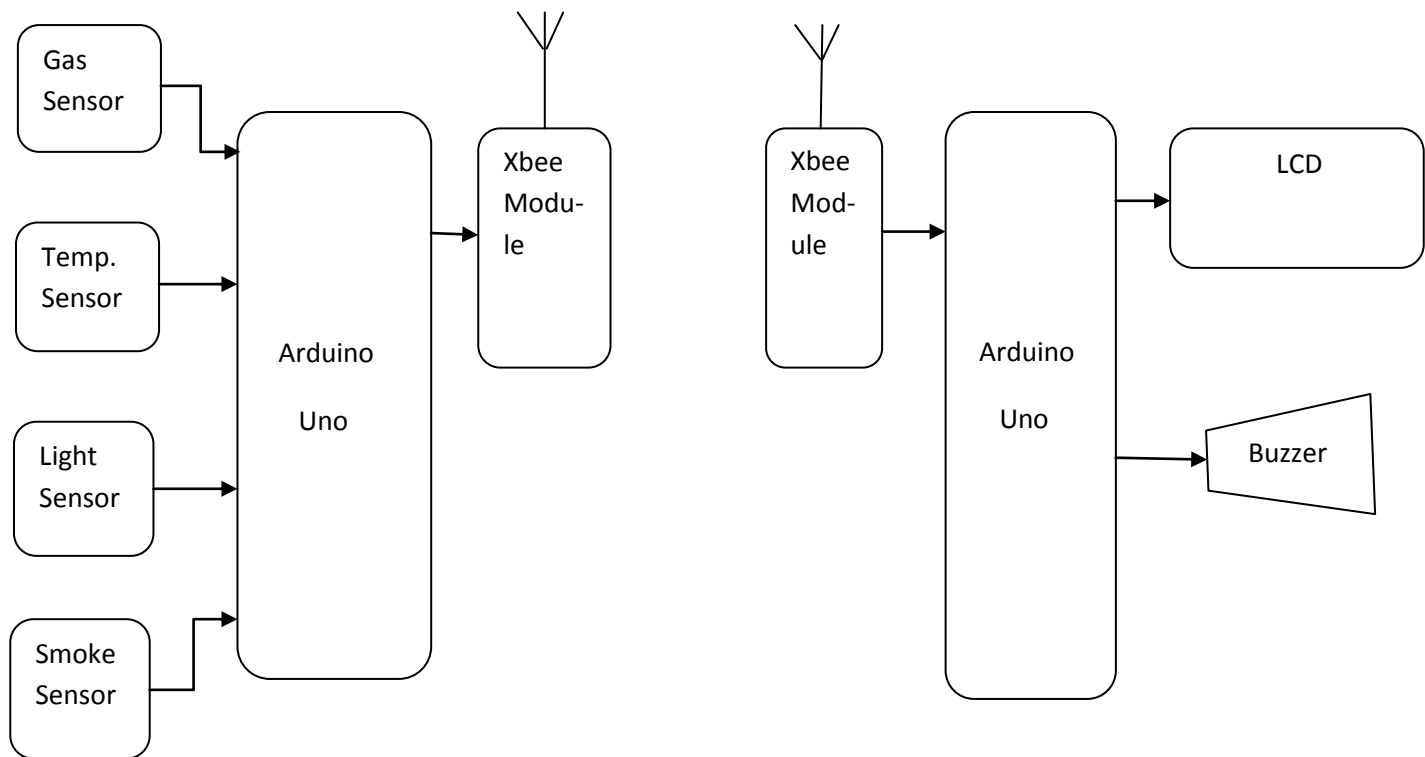# Coal-Miner alert system using Xbee

Abstract

Industrial safety is one of the main aspects of industry specially mining industry. In the mining industry safety is a very vital factor. To avoid loss of material and damaging of human health, protection system as well as faithful communication system is necessary inside the underground mines. To increase both safety and productivity in mines, a reliable communication must be established between workers, moving in the mine, and a fixed base station. Inside mines, the wired communication system is not so effective, because of wires can be damaged inside mines. In this project we are going to monitor the Mine parameters like abnormal gas, temperature and light intensity to avoid the harmful gas or high temperature attacking the Mine workers. In this project to avoid loss of material and damaging of human health in mine the information of Gas, temperature, light intensity, smoke will be sent from mine to base station via Xbee transmission.

Block Diagram:

Transmitter Section   Receiver Section (Base Station)