Abstract

Proyect Integrator

Team 3:

Amayelli Itzel Silva Contreras

Edsel Barbosa Gonzalez

Kevin Roberto Gómez Peralta

José Luis Garza Gallegos

**In the 21st century, due the great value of water as basic resource and the fact that is increasingly scarce the prices has been risen and because that there has been looking for ways to waste less water.**

**Actually there is used just to have basic systems with pumps, meters and valves but people do not know how much water is really used. The University of Colima want to know how much water pressure is used daily to have complete control of the water flow.   
  
So we have taken on the task of developing a system to solve this problem. Our system is based on the use of sensors in three strategic points of each building owned by the University of Colima. In conjunction with a computer system that is responsible to collect, store and upload data daily to a web page, there could be monitored the water flow easily and effectively. Two and half inches sensor, protoboards, a gate Max32, a gate pic 18f4550 and wire DB9 to USB are the main components of our hardware tools. C and C# programming languages were used to make the applications responsible of taking data from the sensors and converts the pulses to deciliters, and send the information to our webpage that is made with** PHP, HTML5 and MySQL**.**

**As results we have achieved to know how much water is used in a period time and we can see it through our web page. With this we are obtaining data to calculate the normal use and to see if there is any excess.**

**In conclusion we think that this project can be developed to a higher level to administrate the water consume of larger urban zones and to control the public water and then be more near of the solution for water problems in the world.**