

The Water Usage Monitoring System, an Innovative Way to Save Money

AUSTIN, TEXAS, UNITED STATES, December 24, 2014 /EINPresswire.com/ -- Balancing a budget is never easy. There are many variables that put all of us under a constant strain to cut our expenses every month. Following this process properly not only requires discipline it also demands innovative thinking. Live Oak Systems LLC is a company driven to provide innovative reliable and low cost solutions which save money in the long run. Their most recent project is a low-cost ensuring [water monitoring system](#).

Johann Niehaus is an engineering graduate of the Nelson Mandela Metropolitan University in Port Elizabeth.

Johann ran a renewable energy research facility for the university. In these roles he learned both the expertise and the will to preserve our precious resources using technology. Our collective water supply is being stressed worldwide and this is a growing trend. Unfortunately this reality is forcing water delivery costs to become increasingly expensive. Johann has recognized a real need for homeowners to combat this trend. As the developer of this patented system, Johann is qualified to create a viable residential and commercial low-cost water monitoring device.

Johann has been very honest about the status of the project. A Linux computer controls the main module system. There will be a 4.3 inch LCD color touchscreen display which will show all of the important system information and have a real-time clock. The current home screen requires further development and the software interface is about half complete. When it is completed it will explain measurements and budget information. The user will be able to setup all operating parameters to their own preferences by using the display. Users will input the water billing information on the screen as well as the base cost and regulatory charges. In this way users can track their real time water cost and water usage history. They can also run estimates based on an average of their water consumption. By actively tracking how much water they have used, homeowners have the ability to know how much they have spent during the current billing period. All of this will be made available graphically through easy to follow charts. This makes it easy for a monthly budget for water usage to be added and tracked. The system has an option to release notifications if needed. The entire system can be accessed through a VPN connection which will be made available for Internet devices. Android and iPhone accessibility and Wi-Fi connectivity are also included. The web interface is intended to mirror the local display.

The system works by capturing [real time water usage](#). This is done by clamping 1.2MHz ultrasonic



measurement sensors to water pipes. The ultrasonic sensors are non-intrusive. These sensors are placed both upstream and downstream. They operate by sending an ultrasonic burst whenever water flows past the sensors. Keeping track of these bursts measures the speed of the water flow by calculating the volume of water used and the diameter of the pipe. The water volume is tracked every 500ms based on this measurement. This information will be wirelessly transmitted to the main processing module. This main module will be where all further calculation and control functions are housed.

This water monitoring system is intended to consistently save homeowners on expenses. This amounts to a large amount of money in the long run. The device has the potential to do exactly that if used wisely. This allows every homeowner to preserve one of nature's most precious resources by eliminating wasteful water usage. In order to support finishing this system and making it ready for production there is a current [Kickstarter crowdfunding campaign](#) in place until January 25th. There are many crowdfunding rewards available with this campaign. For one thousand dollars donors will receive the unique opportunity of being an official prototype tester and offer feedback. They will also receive a hoodie and a tee shirt. For 2500 dollars donors will receive the water monitoring system, a Live Oak Systems hoodie, tee shirt and coffee mug. It is important for potential donors to realize that this pledge is both an economical and environmental investment. As stated in the long run homeowners will make money every month with this invention. In addition to this benefit preserving our water supply is a priceless trans-generational investment.

About:

Johann Niehaus of Live Oak Systems (www.liveoaksys.com) has developed a low-cost water monitoring system which tracks real time water usage. This system has a user-friendly interface and features smart technology. There is a current Kickstarter crowdfunding campaign in place in order to support the production of this system.

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This press release can be viewed online at: <http://www.einpresswire.com>

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