

Description of the Aetheric Chime Meditation Meter

By Jack Kayser
April 24, 2016

Introduction

The Aetheric Chime Meditation Meter [Achime] is a system that measures the electric resistance of a small sample of fluid. This fluid can be any non-volatile liquid, such as distilled water, freshly brewed tea or aloe vera gel. The purpose of the device is to measure changes in the fluid caused by the energetic field of one or more people in meditation.

Hardware

The Achime uses an Arduino compatible UNO and an LTC2400 ADC card to read the voltage of a Wheatstone bridge, which measures the resistance of the fluid to an electrical current of approximately 2.1539 volts DC. A schematic of the system is shown in Figure 1 and photograph of the parts shown in Figure 2. The parts include a tin box with a hole just big enough for the USB connector to fit through. This box provides a protective housing for the hardware as well as electromagnetic shielding.

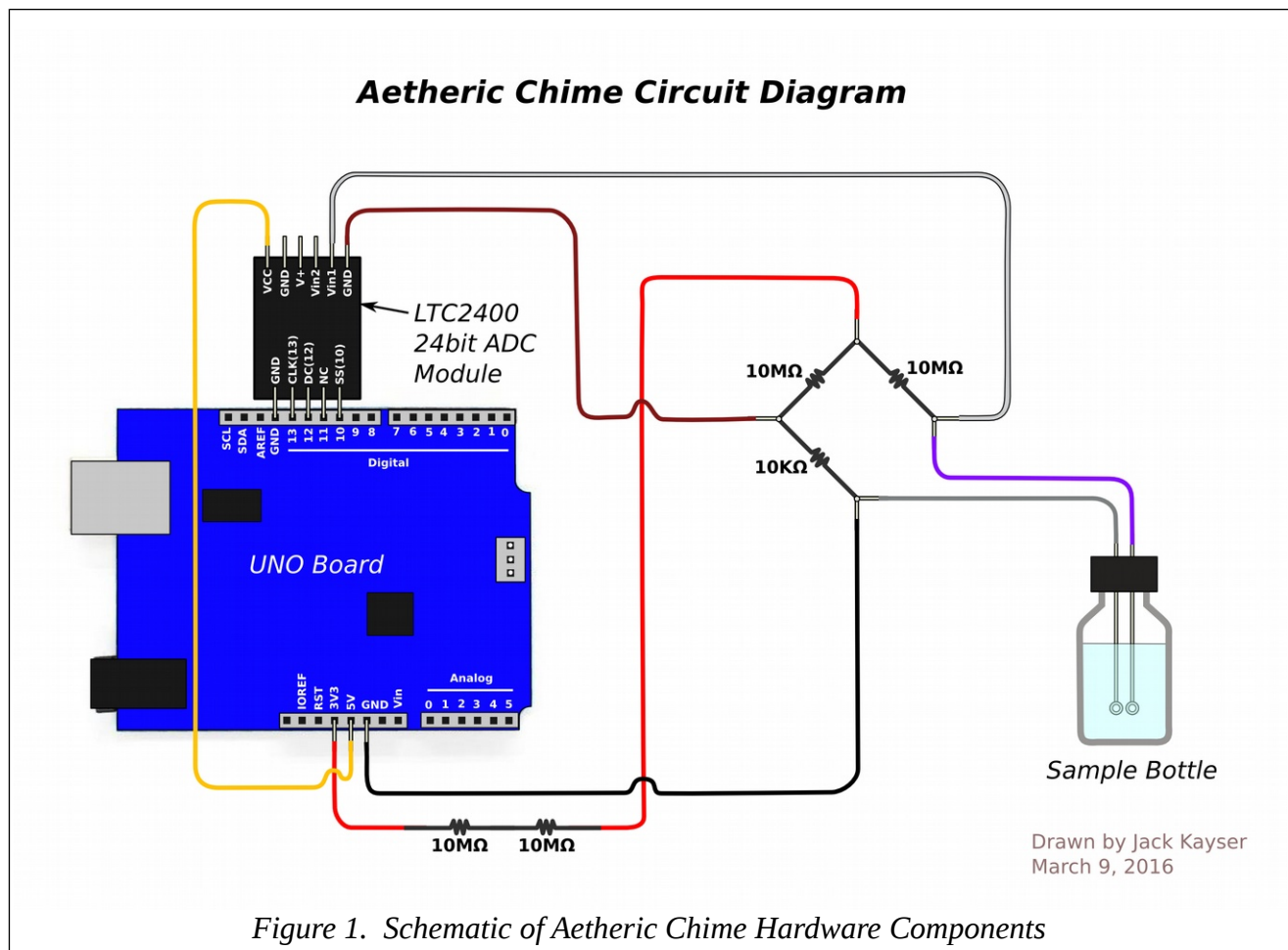




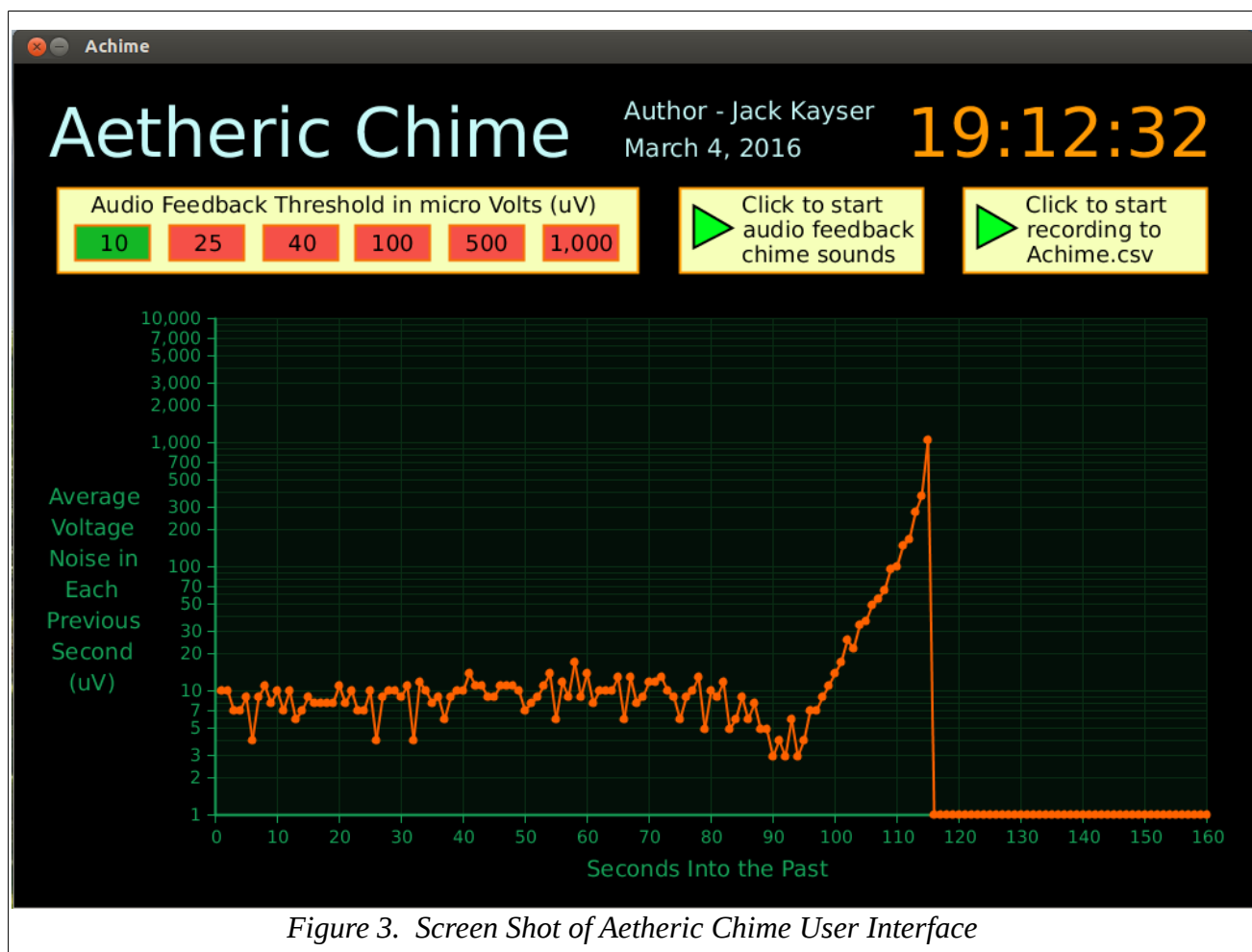
Figure 2. Aetheric Chime Hardware Components

The sample bottle is made from an essential oil jar with two gold plated earring post mounted through the cap, items that can be purchased at a craft store. The Wheatstone Bridge is made using a circular circuit board that is glued inside of a plastic bottle cap. Other bottles are also shown in Figure 2.

Software

The user interface is shown in Figure 3, illustrating the startup of a distilled water sample. The interface is written in the Processing script language and runs in the Processing IDE. A copy of the Processing script is available on the GitHub web site, along with this document [search for Aetheric_Chime]. The Arduino compatible card is loaded with controller software which is the same software available for the LTC2400 ADC module. This ADC software has been modified to only send a voltage reading to the serial port, without the sequence number. The voltage reading is reported with a period to indicate the decimal point rather than a comma. The LTC2400 ADC is available on Ebay.

Besides gathering the data from the serial port, the software computes a running average of the voltage and voltage noise [deviation in absolute value of each new reading from the average voltage]. The user interface plots this average noise for each second and can activate a chime alarm if a set threshold of noise is exceeded. The audio chimes used to make the sounds are also stored with the Processing script on GitHub as mp3 files.



Operation

After putting a test liquid Achime sample bottle, the bottle is connected to the bridge and placed inside the enclosure. The USB cable is connected to the Arduino compatible card and the Processing interface and script started. The results will start to be presented something like that shown in Figure 3. After a couple of minutes the noise level will settle at a stable range. Each kind of liquid has its own level of equilibrium. The threshold of noise for activating a chime can be set by clicking on the desired level. After a few trial and error tests, it will become apparent what this threshold level should be. The file recording option can be selected and the time, voltage and noise data will be written to a file named `Achime.csv`. The file must be renamed after each test, as the program rewrites this file with each new run.

The enclosure can be placed at a location next to where a person is meditating. A fresh sample made of water, sugar and yeast works well. The sample will exhibit spikes in noise when the nearby meditator is experiencing samadhi, particularly if chi or pranic energy is intensely throttled along the spine. Setting the chime threshold at 40 or 100 will provide a biofeedback response that can be heard by the meditator. The chime occurring in unison with an elevated state of consciousness provides a deeply satisfying validation of the experience. Figure 4 illustrates session results involving a sample of freshly brewed and drank licorice tea, annotated and plotted from the `Achime.csv` file.

Achime Measurement of Licorice Tea During Meditaiton Which was Recently Brewed and Drank April 10, 2016

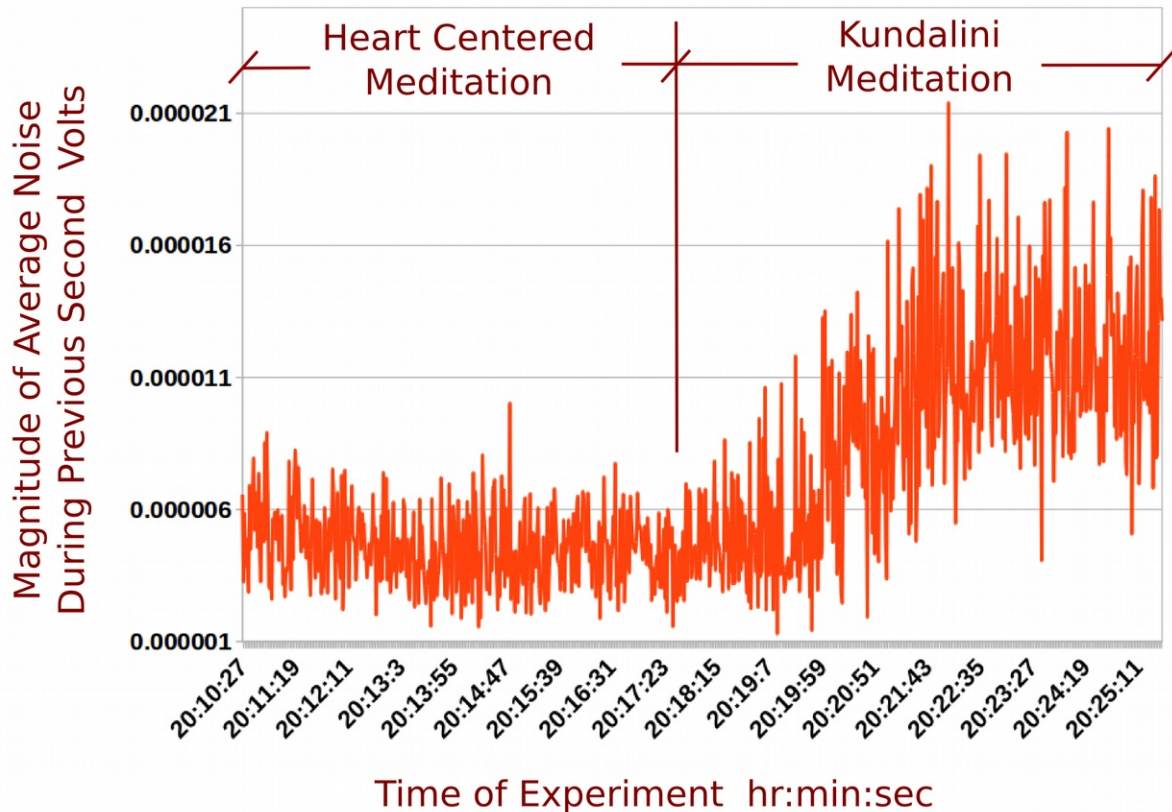


Figure 4. Results of a Test of Licorice Tea

Final Words

I built the Achime to prove to myself that some part of me extends beyond my body. Perhaps it is the electrical field of my heart or perhaps it is a spiritual aspect of my being, I can't say.

The ideas for building this system are based on the work of Cleve Backster. He used a polygraph [galvanometer] to measure the response of plants to human emotions and intentions.

I hope that those of you who build this system are also adept at meditation. You will find a pleasant confirmation of what you already know. You will also realize that as interesting as this is, it is a distraction.

Comments and questions can be directed to me at jackkayser7374@gmail.com.

This work is licensed under the GNU General Public License v2.0.