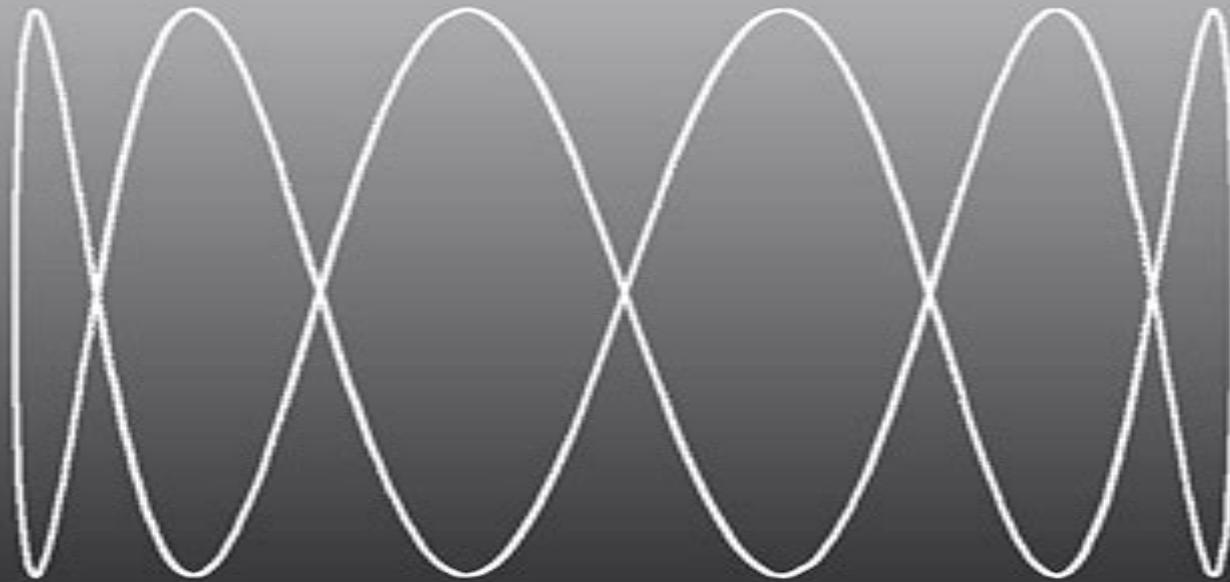# Sound Card Oscilloscope

Build Better Electronics Projects

Steve Garratt

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Joseph Berardi

Sound Card Oscilloscope Build Better Electronics Projects Diy Electronics 1:

   Sound Card Oscilloscope Steve Garratt,2014   **Electronics World** ,2005   Popular Mechanics ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle   Electronic Projects for Oscilloscopes 2017 Joseph Berardi,2017-10-21 Electronic Projects for Oscilloscopes 2017 by Joseph Berardi The 2017 edition has embraced using a low cost Arduino Uno board to make various oscilloscope projects The book starts out with a tutorial on how one works and the different types of waveforms that can be observed The next section of the book has an electronic reference that covers the fundamentals of passive electronic components More sophisticated components are also presented with a comparison of different possible components useful in making the circuits for a digital oscilloscope The 2017 edition added the Arduino Uno embedded controller The low cost Arduino embedded controller simplifies the amount of hardware required to build an oscilloscope An embedded controller based oscilloscope greatly enhances the capabilities and programmability of the oscilloscope This book explores several different techniques for utilizing the less than twenty five dollar Arduino Uno board and demonstrates how easy it is to make several different oscilloscope projects The Oscilloscope 1 project demonstrates using the Uno board s built in analog to digital converter with a few lines of code to create a primitive oscilloscope There is no additional hardware required other than a Uno board connected to a PC The Oscilloscope 3 project adds an external A D converter onto a solderless breadboard for better performance This project requires only one IC and a few resistors No soldering is required making this an excellent student s first building project A simple sketch code listing is provided for using the IDE serial plotter for the oscilloscope display A second more sophisticated sketch listing is used in conjunction with a PC computer using FreeBASIC code to make a standalone oscilloscope that does not require the Arduino environment The FreeBASIC compiler is a modern programming language producing standalone EXE programs As the name suggest this full featured programming language is free to download and run The Oscilloscope 6 project teaches a system engineering approach to adding peripherals to the Uno board for making more sophisticated electronic projects The Oscilloscope 7 project adds a data memory to the A D converter to greatly increase the sampling speed of the oscilloscope A FIFO is used to make the sampling rate independent of the speed of the embedded controller This final project Oscilloscope 7 utilizes several other project boards resulting in a full featured oscilloscope capable of viewing small to large signals using a standard oscilloscope probe This oscilloscope also supports using an external trigger signal which is crucial to capturing non repetitive waveforms The Oscilloscope 7 project can use the Uno generated clock for sampling or either of the two external clock generation boards These separate boards allow sampling at a precise clock frequency or using an easily adjusted variable clock frequency oscillator for the conversion clock After the basic hardware has been made the project builder can incrementally develop the

software features for the oscilloscope ending up with a very sophisticated piece of test equipment This book contains the source code listings for both the sketch code running on the embedded controller and the FreeBASIC code running on the PC for demonstrating the capabilities of a full feature oscilloscope Along the way the project builder will learn how to make and use clock generator circuits and analog amplifiers to add functionality to the oscilloscope The book culminates with a demonstration FreeBASIC code listing for a GUI graphical user interface dashboard and a separate graphical plot program for plotting waveforms from saved data files The user can save waveform files and plot the data later for further study Joseph Berardi is a retired electronics engineer with twenty four years experience in development engineering **Electronic Projects for Oscilloscopes** Joseph Berardi,2016-12-26 Electronic Projects for Oscilloscopes by Joseph Berardi There is a tutorial on how an oscilloscope works and the different types of waveforms that can be observed The book starts out with the fundamentals of passive electronic components including resistors capacitors inductors and transformers More sophisticated components are presented with a comparison of different possible components used for making the circuits for a digital oscilloscope including diodes LED Displays op amps timer integrated circuits TTL logic family voltage regulators analog to digital converters and SRAM memory There is a tutorial on the application of a human interface for controlling an electronic project The first several projects are the building blocks for making your own oscilloscope including the following projects a 5V DC Power Supply variable DC Power Supply 555 based oscillator and a voltage controlled oscillator VCO Each project includes the design theory schematics parts list PCB artwork and test results or corrections required to make the project work The book culminates with several oscilloscope projects including a simple easy to build Oscilloscope 2 student version project then onto a much more sophisticated Oscilloscope 5 broken into four individual projects to a high speed A D converter Oscilloscope 6 project All of the book projects are standalone not requiring a computer micro controller or any software programming **Electronic Breadboard Projects for Oscilloscopes** Joseph Berardi,2019-09-23 Electronic Breadboard Projects for Oscilloscopes by Joseph BerardiThe Electronic Breadboard Projects for Oscilloscopes book introduces the project builder to building simple oscilloscope projects and incrementally adding features ultimately making a sophisticated oscilloscope utilizing an Arduino board There is a separate tutorial for introducing the concepts for making an oscilloscope A technical reference is included providing valuable information for using electronic components The open source Arduino embedded controller hardware is the brains for these oscilloscope projects The open source Arduino compiler and FreeBASIC compilers are downloaded from the internet for free The FreeBASIC complier is a modern full featured programming language producing standalone EXE programs The generated EXE programs are small and efficient and can easily be run from a USB thumb drive or from the PC s hard drive The Arduino boards can be programmed using a PC based application or a web based tool and this book gives detailed instructions for using the PC installed compiler for uploading the code to the Arduino boards There are numerous software projects with code examples for implementing these oscilloscope

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