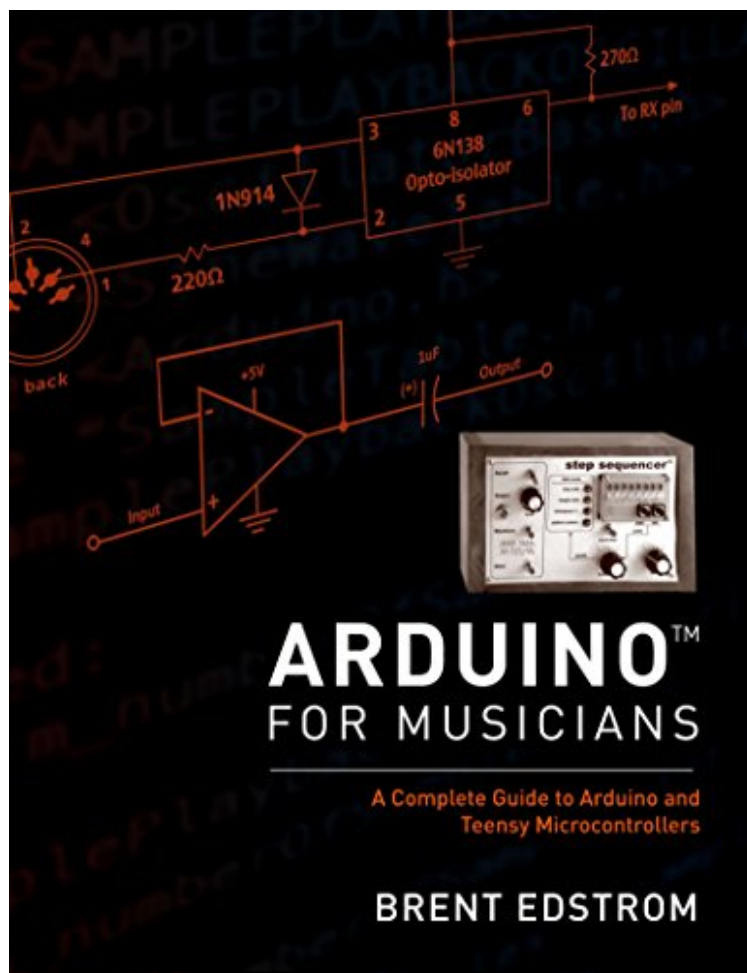




# Arduino for Musicians: A Complete Guide to Arduino and Teensy Microcontrollers

*Brent Edstrom*

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**Brent Edstrom : Arduino for Musicians: A Complete Guide to Arduino and Teensy Microcontrollers** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Arduino for Musicians: A Complete Guide to Arduino and Teensy Microcontrollers:

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Arduino, Teensy, and related microcontrollers provide a virtually limitless range of creative opportunities for musicians and hobbyists who are interested in exploring "do it yourself" technologies. Given the relative ease of use and low cost of the Arduino platform, electronic musicians can now envision new ways of synthesizing sounds and interacting with music-making software. In Arduino for Musicians, author and veteran music instructor Brent Edstrom

opens the door to exciting and expressive instruments and control systems that respond to light, touch, pressure, breath, and other forms of real-time control. He provides a comprehensive guide to the underlying technologies enabling electronic musicians and technologists to tap into the vast creative potential of the platform. *Arduino for Musicians* presents relevant concepts, including basic circuitry and programming, in a building-block format that is accessible to musicians and other individuals who enjoy using music technology. In addition to comprehensive coverage of music-related concepts including direct digital synthesis, audio input and output, and the Music Instrument Digital Interface (MIDI), the book concludes with four projects that build on the concepts presented throughout the book. The projects, which will be of interest to many electronic musicians, include a MIDI breath controller with pitch and modulation joystick, "retro" step sequencer, custom digital/analog synthesizer, and an expressive MIDI hand drum. Throughout *Arduino for Musicians*, Edstrom emphasizes the convenience and accessibility of the equipment as well as the extensive variety of instruments it can inspire. While circuit design and programming are in themselves formidable topics, Edstrom introduces their core concepts in a practical and straightforward manner that any reader with a background or interest in electronic music can utilize. Musicians and hobbyists at many levels, from those interested in creating new electronic music devices, to those with experience in synthesis or processing software, will welcome *Arduino for Musicians*.

"I heartily recommend this book as a way to get started with Arduino or electronics even for non-musicians. But if you ever wanted to make your own Moog synth or Theremin (and who hasn't) then you will love this book."--Dr. Simon Monk, author and maker

"A comprehensive and easy to use guide for everything you may need to know about how to use the Arduino for musical applications. The book is well-organized, allowing both technical novices and experienced music technologists to find the information and guidance they may be looking for."--Gil Weinberg, Professor and Director, Georgia Tech Center for Music Technology

"Edstrom has developed a very useful resource for musicians interested in using microcomputer controllers and software tools in *Arduino for Musicians*. This publication, organized in three sections, serves not only as an introduction for those just learning the world of the Arduino, but also for those learning to use the open-source electronics platform to apply creative applications of the core concepts for the more advanced projects. The intermediate and advanced sections are written in a casual narrative style with well-organized sequencing. The book is a welcome addition as a resource or required text for undergraduate or graduate students enrolled in music technology or related courses in multimedia performance."--G. David Peters, Professor and Head of Graduate Studies, Music and Arts Technology, Indiana University - IUPUI

About the Author Brent Edstrom is the author of several books, including *Recording on a Budget* and *Musicianship in the Digital Age*. An avid programmer, he has used a variety of programming languages to create custom ear training, music synthesis, and music notation applications, and has taught courses in music and computer science. He is a professor of music at Whitworth University.