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# Arduino Projects For Amateur Radio (Electronics)



## Synopsis

BOOST YOUR HAM RADIO'S CAPABILITIES USING LOW-COST ARDUINO

MICROCONTROLLER BOARDS! Do you want to increase the functionality and value of your ham radio without spending a lot of money? This book will show you how! Arduino Projects for Amateur Radio is filled with step-by-step microcontroller projects you can accomplish on your own--no programming experience necessary. After getting you set up on an Arduino board, veteran ham radio operators Jack Purdum (W8TEE) and Dennis Kidder (W6DQ) start with a simple LCD display and move up to projects that can add hundreds of dollars' worth of upgrades to existing equipment. This practical guide provides detailed instructions, helpful diagrams, lists of low-cost parts and suppliers, and hardware and software tips that make building your own equipment even more enjoyable. Downloadable code for all of the projects in the book is also available. Do-it-yourself projects include: LCD shield Station timer General purpose panel meter Dummy load and watt meter CW automatic keyer Morse code decoder PS2 keyboard CW encoder Universal relay shield Flexible sequencer Rotator controller Directional watt and SWR meter Simple frequency counter DDS VFO Portable solar power source

## Book Information

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## Customer Reviews

While some of the projects seem very interesting, the first thing I did was go to the "Errata" webpage as explained in the preface. [www.mhprofessional.com/arduinohamradio](http://www.mhprofessional.com/arduinohamradio) I couldn't find any errata. Their own website: [www.arduinoforhamradio.com](http://www.arduinoforhamradio.com) for discussion of projects turns up a blank "U.S. Microwave" page. I understand books such as this are published on a very short time line but they need then to have a recourse for noting errors. In the first project, LCD Shield, the listing gives pinouts as "LiquidCrystal Lcd(12, 11, 5, 4, 3, 2);". Yet the recommended downloadable program lists "LiquidCrystal Lcd(12, 11, 7, 6, 5, 4);". I know I can easily change this but I shouldn't have errors like this from the start.... Or I should at least be able to find a listing of these errors. I fear I will have to do a lot of unnecessary debugging. In the Morse Decoder I see a digitalWrite(LED,1) but never a digitalWrite(LED,0). I thought the LED was supposed to flash with the incoming audio. I will certainly change my review if I can get pointed in the right direction toward noted errors.

Very detailed and well written. I have successfully built the universal panel meter and intend to build more of the projects in this book. The link to the forum listed in this book seems to be broken, but the source code for the projects can be found if you go to the "McGraw Hill Professional" web site and search on "Arduino Projects for Amateur Radio". PS, If you build the panel meter, make sure the unit is powered up before you try to measure a voltage with it and make sure the voltage being measured is not too far beyond the range of the meter. Anyone want to buy a fried Arduino board?

Good intro book for Arduino with many practical and useful projects. Rather than the "cook book" style prevalent, the authors take the time to explain some C/C++ tips and techniques to lead towards understanding the reasons behind the code. Having read six Arduino intro books in the past three months, this one gets my vote for most utility and best content. If you just want to throw together a project, buy one of the others, but if you are seriously interested in learning programming (vs copying sketches), get this one.

Full of great technical details and fun projects. I have the kindle and the paperback versions: it is a little easier to prop up the real book while working on things, copy parts of a page, etc. If you could only print tables/schematics from the Kindle it would make the paper copy redundant...I'd love to

see another version using Raspberry Pi to do similar things.

KM4YEC, as a Board Member of a local Amateur Radio Club who was trying to kickstart a Builders Group I searched for a text that I could use as foundation for starting this effort. Searching previous reviews for satisfaction with the projects offered and completeness of code and easy to understand instructions, I choose this book. Months later when I look on the tables where we are building, there are a pile of these marked up books. What is really great for us, is that this author has many offshoots of projects in this book and similar projects that we are using that are available outside of his book and are evolving every day, just as a Group, we are paralleling in our evolution. It is a good thing to be able to follow projects that evolve with the same software code author, while at the same time compare with the efforts of others, and then incorporate the best into our projects. Its great to have a text that is just begging for a Part 2.

Super book for the amateur that likes to build his own equipment. Explains the Arduino and the hows and whys to use it for simple projects. Each project is fully explained so the builder can modify it to his own use. You can tell the book was written by amateurs who do there own building of amateur equipment. Larry K6HLH

Jack Purdum and Dennis Kidder take the reader by the hand to begin building simple LCD display projects and gradually work up to more complex projects that are useful tools for an amateur radio operator's station. One may simply build a particular project as presented and run the code, but I learned much more by working through from the beginning. I highly recommend this book. Craig Wadsworth, PE, W9CTE

The attention to detail in this work is amazing. It far exceeded my expectations. I am very pleased that I bought this book and will learn much more than I thought was possible. The excellent explanations of each line of code helped me build the confidence that I wanted and needed to work with the aduino.

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