

```

/*****
Flexible 4-Port Sequencer Version 1.0

Designed by Dennis Kidder W6DQ 5 Jan 2014

This sketch when used with the purpose-built hardware described in the
book, "Arduino Projects for Ham Radio," will provide a completely
configurable sequencer. Two sets of two arrays configure the ON sequence
the OFF sequence and the delays between each step. This allows the ON
and OFF sequence order to differ along with the ON and OFF times for each
step through sequence.
*****/

/*****
The following four lines of code allow the user to configure the ON and OFF
sequence and delay times for each step. The default configuration turns
the relays on in the sequence "1,2,3,4" (represented logically by digital
IO pins 0, 1, 2, and 4) and to turn them off in the reverse order "4,3,2,1."

The delay between steps is expressed in milliseconds and the default is 50.
The order of the values in the array corresponds to the order in which the
relays are turned ON or OFF.
*****/

#define DEBOUNCEDELAY 10

int relayPin[] = {0,7,6,9}; // order to sequence relays on
int onDelay[] = {50,50,50,50}; // ON times in sequence

int relayPinOff[] = {9,8,7,6}; // order to sequence relays off
int offDelay[] = {50,50,50,50}; // OFF times in sequence

int inputInd = 13; // pin 13 drives the input indicator LED
int pttInput = 10; // pin 5 is the PTT input

int arrayElements = (sizeof(relayPin) / sizeof(relayPin[0])); // elements

void setup()
{
  for(int index = 0; index < arrayElements; index++)
  {
    pinMode(relayPin[index], OUTPUT);
    pinMode(inputInd, OUTPUT);
    pinMode(pttInput, INPUT);

    digitalWrite(pttInput, HIGH);
  }
}

void loop()
{

```

Listing 12-2 Sequencer program for Arduino.

# Arduino Projects For Amateur Radio

**Mehmet AVCU**



## Arduino Projects For Amateur Radio:

**Arduino Projects for Amateur Radio** Jack Purdum, Dennis Kidder, 2014-09-04 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

**More Arduino Projects for Ham Radio 1st Ed** Glen Popiel, 2017-04-17 Building on the success of Arduino for Ham Radio this book More Arduino Projects for Ham Radio includes 15 completely new practical and functional Arduino projects for the ham shack This time we branch out to use some of the newer Arduino variants and devices Each project is complete and functional as is but room has been left for you to add personal touches and enhancements That s part of the fun of the Arduino and Open Source communities building on the work of others and then sharing your designs and innovations for others to learn modify and improve Amazon com

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**Arduino for Radio Amateur Applications** Glen Popiel, 2024-03-18

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put to work in 10 practical projects that showcase a wide variety of applications and include detailed descriptions of how the software sketches work Each project is complete as is with ideas for you to add your own personal touches or create your own projects using the techniques and modules presented That s part of the fun of the Arduino and the Open Source community building on the work of others in the community and then giving it back for others to expand upon your work

### **The Internet of Things: Do-It-Yourself at Home Projects for Arduino, Raspberry Pi and BeagleBone Black**

Donald Norris,2015-01-30 Build and program projects that tap into the Internet of Things IoT using Arduino Raspberry Pi and BeagleBone Black This innovative guide gets you started right away working with the most popular processing platforms wireless communication technologies the Cloud and a variety of sensors You ll learn how to take advantage of the utility and versatility of the IoT and connect devices and systems to the Internet using sensors Each project features a list of the tools and components how to explanations with photos and illustrations and complete programming code All projects can be modified and expanded so you can build on your skills The Internet of Things DIY Projects with Arduino Raspberry Pi and BeagleBone Black Covers the basics of Java C Python JavaScript and other programming languages used in the projects Shows you how to use IBM s Net Beans IDE and the Eclipse IDE Explains how to set up small scale networks to connect the projects to the Internet Includes essential tips for setting up and using a MySQL database The fun DIY projects in the book include Raspberry Pi home temperature measurements Raspberry Pi surveillance webcams Raspberry Pi home weather station Arduino garage door controller Arduino irrigation controller Arduino outdoor lighting controller Beaglebone message panel Beaglebone remote control SDR Machine to machine demonstration project *Arduino Playground* Warren

Andrews,2017-03-15 You ve mastered the basics conquered the soldering iron and programmed a robot or two now you ve got a set of skills and tools to take your Arduino exploits further But what do you do once you ve exhausted your to build list Arduino Playground will show you how to keep your hardware hands busy with a variety of intermediate builds both practical and just for fun Advance your engineering and electronics know how as you work your way through these 10 complex projects A reaction time game that leverages the Arduino s real time capabilities A tool for etching your own printed circuit boards A regulated variable voltage power supply A kinetic wristwatch winder decked out with LEDs A garage parking assistant that blinks when your vehicle is perfectly parked A practical and colorful pH meter A ballistic chronograph that can measure the muzzle velocity of BB Airsoft and pellet guns A battery saver that prevents accidental discharge A square wave generator A thermometer that tells the temperature using a sequence of colored LEDs Each project begins with a list of required tools and components followed by the instructions full sketch and circuit board templates for the build as well as directions for building a permanent enclosure You ll even find the author s design notes which are sure to provide inspiration for your own inventions Gather your parts break out the soldering iron and get ready to take your Arduino skills to the next level with Arduino Playground Uses the Arduino Nano and Pro Mini boards *Arduino Robot Bonanza* Gordon

McComb,2013-04-19 Create high tech walking talking and thinking robots McComb hasn't missed a beat It's an absolute winner GeekDad Wired.com Breathe life into the robots of your dreams without advanced electronics or programming skills Arduino Robot Bonanza shows you how to build autonomous robots using ordinary tools and common parts Learn how to wire things up program your robot's brain and add your own unique flair This easy to follow fully illustrated guide starts with the Teachbot and moves to more complex projects including the musical TuneBot the remote controlled TeleBot a slithering snakelike bot and a robotic arm with 16 inches of reach Get started on the Arduino board and software Build a microcontroller based brain Hook up high tech sensors and controllers Write and debug powerful Arduino apps Navigate by walking rolling or slithering Program your bot to react and explore on its own Add remote control and wireless video Generate sound effects and synthesized speech Develop functional robot arms and grippers Extend plans and add exciting features

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