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**Arduino is an open-source
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electronics projects easier than ever. Gone are the days when you had to learn electronics theory and arcane programming languages before you could even get an LED to blink.

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**new Arduino Zero board,
with step-by-step
instructions for building a
universal remote, a motion-
sensing game controller,
and many other fun, useful
projects. This Quick-Start**

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**Guide is packed with fun,
useful devices to create,
with step-by-step
instructions and photos
throughout. You'll learn
how to connect your
Arduino to the Internet and**

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program both client and server applications. You'll build projects such as your own motion-sensing game controller with a three-axis accelerometer, create a universal remote with an

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Arduino and a few cheap parts, build your own burglar alarm that emails you whenever someone's moving in your living room, build binary dice, and learn how to solder. In one of

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several new projects in this edition, you'll create your own video game console that you can connect to your TV set. This book is completely updated for the new Arduino Zero board

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**and the latest advances in
supporting software and
tools for the Arduino.
Sidebars throughout the
book point you to exciting
real-world projects using
the Arduino, exercises**

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**extend your skills, and
"What If It Doesn't Work"
sections help you
troubleshoot common
problems. With this book,
beginners can quickly join
the worldwide community**

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of hobbyists and professionals who use the Arduino to prototype and develop fun, useful inventions. What You Need: This is the full list of all parts you'd need for all

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projects in the book; some of these are provided as part of various kits that are available on the web, or you can purchase individually. Sources include adafruit.com,

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**makershed.com,
radioshack.com,
sparkfun.com, and
mouser.com. Please note
we do not support or
endorse any of these
vendors, but we list them**

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**here as a convenience for
you. Arduino Zero (or Uno
or Duemilanove or
Diecimila) board USB cable
Half-size breadboard Pack
of LEDs (at least 3, 10 or
more is a good idea) Pack**

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**of 100 ohm, 10k ohm, and
1k ohm resistors Four
pushbuttons Breadboard
jumper wire / connector
wire Parallax Ping))) sensor
Passive Infrared sensor An
infrared LED A 5V servo**

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**motor Analog Devices
TMP36 temperature sensor
ADXL335 accelerometer
breakout board 6 pin 0.1"
standard header (might be
included with the ADXL335)
Nintendo Nunchuk**

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**Controller Arduino Ethernet
shield Arduino Proto shield
and a tiny breadboard
(optional but
recommended) Piezo
speaker/buzzer (optional)
Tilt sensor (optional) A**

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**25-30 Watts soldering iron
with a tip (preferably
1/16") A soldering stand
and a sponge A standard
60/40 solder (rosin-core)
spool for electronics work
Mastering Arduino is a**

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you need to create
advanced Arduino projects.
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knowledge from all the
chaptersBook Description**

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advanced Arduino projects.
This book is packed full of
real-world projects for you
to practice on, bringing all
of the knowledge in the
book together and giving**

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you the skills to build your own robot from the examples in this book. The final two chapters discuss wireless technologies and how they can be used in your projects. The book

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begins with the basics of electronics, making sure that you understand components, circuits, and prototyping before moving on. It then performs the same function for code,

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**getting you into the
Arduino IDE and showing
you how to connect the
Arduino to a computer and
run simple projects on your
Arduino. Once the basics
are out of the way, the next**

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10 chapters of the book focus on small projects centered around particular components, such as LCD displays, stepper motors, or voice synthesizers. Each of these chapters will get

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you familiar with the technology involved, how to build with it, how to program it, and how it can be used in your own projects. What you will learnExplains the basics of

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**electronics and circuits
along with the Arduino IDE
and basic C operations Use
sensors to build a mini
weather station Control
LEDs using code Power a
robot arm using stepper**

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**motors Remotely control
your Arduino using RF,
Bluetooth LE, and
Bluetooth Classic Make a
sound tone generator with
buttons Who this book is for
Mastering Arduino is for**

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anybody who wants to experiment with an Arduino board and build simple projects. No prior knowledge is required, as the fundamentals of electronics and coding are

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covered in this book as well as advance projects.

Arduino Project Handbook is a beginner-friendly collection of electronics projects using the low-cost Arduino board. With just a

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and valuable advice on
tools and components.
Then you can work through
the book in order or just
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your eye. Each project includes simple instructions, colorful photos and circuit diagrams, and all necessary code. Arduino Project Handbook is a fast and fun

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**way to get started with
microcontrollers that's
perfect for beginners,
hobbyists, parents, and
educators. Uses the
Arduino Uno board.
Programming and**

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**input/output devices,
communication modules,
and actuators with Arduino
UNO board. This book
contains a large number of
programming examples
along with the description**

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and interfacing details of hardware with Arduino UNO board. It discusses important topics, including SPI communication protocol, I2C communication protocol,

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**light-emitting diode,
potentiometer, analog-to-
digital converter, pulse
width modulation,
temperature sensor LM35,
humidity and temperature
sensor DHT11, motor driver**

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**engineering, electronics,
and communication
engineering, this text:
Discusses construction and
working of sensors,
including ultrasonic sensor,
temperature sensor, and**

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controlling high-voltage
devices. Covers interfacing
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videos demonstrating the
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25 Practical Projects to Get You Started Exploring Arduino

Beginning C for Arduino is written for those who have no prior experience with microcontrollers or programming but would like to experiment and learn

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both. This book introduces you to the C programming language, reinforcing each programming structure with a simple demonstration of how you can use C to control the Arduino family of microcontrollers. Author Jack Purdum uses an engaging style to teach good

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programming techniques using examples that have been honed during his 25 years of university teaching. Beginning C for Arduino will teach you: The C programming language How to use C to control a microcontroller and related hardware

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How to extend C by creating your own library routines During the course of the book, you will learn the basics of programming, such as working with data types, making decisions, and writing control loops. You'll then progress onto some of the trickier

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aspects of C programming, such as using pointers effectively, working with the C preprocessor, and tackling file I/O. Each chapter ends with a series of exercises and review questions to test your knowledge and reinforce what you have learned.

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Are you ready to take your Arduino programming skills as a maker to the next level and discover the best technology the Arduino ecosystem has to offer? If yes, then keep reading... If you've outgrown the basics of Arduino and want to master the numero uno

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microcontroller board used today in a variety of critical industries for rapid prototyping, then this is the only book you're going to need to become an expert in Arduino. Arduino has managed to take the world of Makers by storm. It is rugged, open-source,

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highly customizable and cost-effective, making it a darling of hobbyists and electronics enthusiasts everywhere. In this highly actionable guide, you're going to discover advanced concepts and learn more about the tools and concepts used for more complex

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Arduino projects. You'll also discover insights that will take you from an Arduino hobbyist to understanding underlying hardware and protocols, giving you the confidence you need to solve complicated Arduino programming tasks. Here's a snippet of

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what you're going to learn in Arduino
for Intermediates All you need to know
about functions in Arduino
programming The intricate link
between mathematical functions and
Arduino Optimizing calculations in
Arduino Everything you need to know

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about Bit Shift operations in Arduino
Processing digital inputs effectively
with Arduino The "debounce" concept
and how it applies to Arduino
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advanced Arduino users, this guide will
help you build some projects using
LEDs, piezoelectric sensors,
servomotors, Bluetooth modules and

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Control teaches the reader how to use
Arduino to control analogue audio
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practical projects, including a MIDI drum controller and an Arduino-controlled two-band audio equalizer amplifier. Learn Audio Electronics with Arduino provides all the theoretical knowledge needed to design, analyse, and build audio

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circuits for amplification and filtering, with additional topics like C programming being introduced in a practical context for Arduino control. The reader will learn how these circuits work and also how to build them, allowing them to progress to more

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advanced audio circuits in the future. Beginning with electrical fundamentals and control systems, DC circuit theory is then combined with an introduction to C programming to build Arduino-based systems for audio (tone sequencer) and MIDI (drum controller)

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output. The second half of the book begins with AC circuit theory to allow analogue audio circuits for amplification and filtering to be analysed, simulated, and built. These circuits are then combined with Arduino control in the final project □ an

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Arduino-controlled two-band equalizer amplifier. Building on high-school physics and mathematics in an accessible way, *Learn Audio Electronics with Arduino* is suitable for readers of all levels. An ideal tool for those studying audio electronics,

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including as a component within other fields of study, such as computer science, human-computer interaction, acoustics, music technology, and electronics engineering.

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Solder on! ? Only ever used a
breadboard in the kitchen? Don't know
your soldering iron from a curling
iron? No problem, you'll be prototyping
in no time ? Kitted out ? discover new
and interesting hardware to make your

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Arduino into anything from a mobile phone to a geigercounter! ? Become an Arduino savant ? learn all about functions, arrays, libraries, shields and other tools of the trade to take your Arduino project to the next level. ? Get social ? teach your Arduino to

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platform based around an open source, programmable circuit board. You can combine this programmable chip with a variety of sensors and actuators to sense your environment

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Arduino and make the most of its incredible capabilities. It helps you become familiar with Arduino and what it involves, and offers inspiration for completing

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engineer, designer, or
scientist, get ready to
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Beginning C for Arduino,
Second Edition is written
for those who have no
prior experience with
microcontrollers or
programming but would like
to experiment and learn

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both. Updated with new projects and new boards, this book introduces you to the C programming language, reinforcing each programming structure with a simple demonstration of

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how you can use C to control the Arduino family of microcontrollers.

Author Jack Purdum uses an engaging style to teach good programming techniques using examples

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that have been honed during his 25 years of university teaching.

Beginning C for Arduino, Second Edition will teach you: The C programming language How to use C to

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control a microcontroller
and related hardware How
to extend C by creating
your own libraries,
including an introduction
to object-oriented
programming During the

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course of the book, you will learn the basics of programming, such as working with data types, making decisions, and writing control loops. You'll then progress onto

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some of the trickier aspects of C programming, such as using pointers effectively, working with the C preprocessor, and tackling file I/O. Each chapter ends with a series

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statements and loops to
operators How to start
coding and write your very
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Common mistakes beginners
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an Arduino project and how
to troubleshoot them
Practical projects and
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and ports, wired Ethernet, Bluetooth and Wi-Fi ...and tons more! Even if you currently have no idea what a microcontroller looks like or you've never laid eyes on an Arduino

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tasks, tips and tricks,
with a theoretical
introduction to advanced
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Arduino? As a beginner in
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surely you've wondered the

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same thing. The truth is that it is a very difficult question to answer, as there are numerous projects you can do with this microcontroller. We can

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give examples that will help you understand the functions and utilities of the device. Examples of projects you can easily develop after completing this book include: -Mobile

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robots (e.g., line follower);-Home automation devices (e.g., automatic blinds);-Everyday devices (e.g., alarm clock);-Games (e.g., arcade game machine)-A multitude of

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other projects, the sky is the limit. The book is divided into four chapters (with a possible continuation). Of course, it doesn't cover everything there is to

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know about Arduino because the subject is so extensive that you can write a dozen books about it. In this book, you will learn how to signal information via LEDs and

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environmental information (sensors), process it, act on it (motors), and communicate with the user (diodes, display, computer). Is this book right for me? If you are

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***"In this practical guide,
electronics guru Simon Monk
takes you under the hood of
Arduino and reveals
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secrets. Featuring coverage
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Programming Arduino Next Steps: Going Further with Sketches shows you how to use interrupts, manage memory, program for the Internet, maximize serial communications, perform digital signal processing, and

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imagination! No “geekitude” needed: This full-color guide assumes you know nothing about Arduino or programming with the Arduino IDE. John Baichtal is an expert on getting newcomers up to speed with

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DIY hardware. First, he guides you gently up the learning curve, teaching you all you need to know about Arduino boards, basic electronics, safety, tools, soldering, and a whole lot more. Then, you walk step-by-step through

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***projects that reveal Arduino's
incredible potential for
sensing and controlling the
environment-projects that
inspire you to create, invent,
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breadboards to quickly create
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and stepper motors · Create***

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time · Safely control high-
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electronics · Build pro-quality
enclosures that fit
comfortably in your home
Arduino Step by Step, is the***

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book for everyone who wants to learn the basics about the Arduino mini-PC from an engineer (M.Eng.). In this book you will learn the theoretical basics as well as the practical handling of an Arduino along awesome

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example DIY projects (like: SOS signal with LED, temperature controlled system, light-dependent control of a motor, and more). This book is the all-in-one for beginners, as all the necessary basics for working

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with an Arduino regarding hardware, software & programming are explained in detail. In this course, aimed specifically at beginners, you will learn all the basics you need to know when working with an Arduino. By the way,

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we will work exclusively with the Arduino Uno in this book, as this Arduino model is perfect for beginners. So if you are looking for a practical guide on how to get started with the awesome and multifunctional Arduino mini-

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information, i.e. starting with the basics such as electrical engineering, the structure of the Arduino board, the structure of the software up to the programming and creation of the first projects are contained in this book and

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are explained in detail and step by step. Get yourself a time and cost effective introduction into the world of Arduino! This basic book is aimed specifically at all those who have no or only very primitive prior knowledge of

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libraries In December 2011, Arduino 1.0 was released. This changed a few things that have caused two of the sketches in this book to break. The change that has caused trouble is that the classes

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'Server' and 'Client' have been renamed to 'EthernetServer' and 'EthernetClient' respectively. To fix this: Edit sketches 10-01 and 10-02 to replace all occurrences of the word 'Server' with

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'EthernetServer' and all occurrences of 'Client' with 'EthernetClient'. Alternatively, you can download the modified sketches for 10-01 and 10-02 from here: <http://www.arduinoobook.com/arduino-1->

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Efficiently**

**Practical Audio Circuits with
Arduino Control**

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**The Ultimate Beginner's And
Intermediate's Guide To
Learn Arduino In One Day
Step-By-Step (#2020
Updated Version - Effective
Computer Programming
Languages)**

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Arduino Cookbook

Practical Arduino

Beginning C for Arduino

Written as a practical Packt book
brimming with engaging
examples, C Programming for
Arduino will help those new to

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the amazing open source electronic platform so that they can start developing some great projects from the very start. This book is great for people who want to learn how to design & build their own electronic

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devices. From interaction design art school students to the do-it-yourself hobbyist, or even simply people who want to learn electronics, this book will help by adding a new way to design autonomous but connected

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Summary Arduino in Action is a hands-on guide to prototyping and building electronics using the Arduino platform. Suitable for both beginners and advanced users, this easy-to-follow book

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begins with the basics and then systematically guides you through projects ranging from your first blinking LED through connecting Arduino to devices like game controllers or your iPhone. About the Technology

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Arduino is an open source do-it-yourself electronics platform that supports a mind-boggling collection of sensors and actuators you can use to build anything you can imagine. Even if you've never attempted a

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hardware project, this easy-to-follow book will guide you from your first blinking LED through connecting Arduino to your iPhone. About this Book Arduino in Action is a hands-on guide to prototyping and building DIY

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electronics. You'll start with the basics—unpacking your board and using a simple program to make something happen. Then, you'll attempt progressively more complex projects as you connect Arduino to motors, LCD displays,

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Wi-Fi, GPS, and Bluetooth. You'll explore input/output sensors, including ultrasound, infrared, and light, and then use them for tasks like robotic obstacle avoidance. Arduino programs look a lot like C or C++, so some

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programming skill is helpful.
What's Inside Getting started
with Arduino—no experience
required! Writing programs for
Arduino Sensing and responding
to events Robots, flying vehicles,
Twitter machines, LCD displays,

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and more! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications.

About the Authors Martin Evans is a professional developer, a lifelong electronics enthusiast,

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and the creator of an Arduino-based underwater ROV. Joshua Noble is an author and creative technologist who works with smart spaces. Jordan Hochenbaum uses Arduino to explore musical expression and

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creative interaction. Table of
Contents Part 1 Getting started
Chapter 1 Hello Arduino Chapter
2 Digital input and output
Chapter 3 Simple projects: input
and output Part 2 Putting
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Arduino in motion Chapter 6

Object detection Chapter 7 LCD
displays Chapter 8

Communications Chapter 9

Game on Chapter 10 Integrating
the Arduino with iOS Chapter 11

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Making wearables Chapter 12

Adding shields Chapter 13

Software integration

Presents an introduction to the
open-source electronics
prototyping platform.

Programming was once

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considered an activity reserved for some people of above-average talent and intelligence, elected by the gods of mathematics. This vision is changing, and the activity of programming is becoming more

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and more present, especially after the explosion of the Internet in general and the internet of things (IoT). This is largely thanks to programmable devices like Arduino, which offer us a development platform that

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makes programming so easy that even those who never thought they could do so can succeed. And the purpose of this book (The Realms Of Arduino Programming) is precisely to open the door by introducing in a

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didactic way this powerful programming tool that is, at once, useful, beautiful, fun, and powerful. This book is part of a series of Arduino, and the study is done gradually, in increasing order of complexity. The first

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book focuses on presenting Arduino as a concept and development platform, teaching you how to install and test the system. It shows the basic components used for prototyping, gives a detailed

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description of the IDE features, and explains the concepts needed to understand the process of programming, as well as transferring the program from the programming environment to Arduino memory, concluding with

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a hands-on experiment using a protoboard and a led. The text is written in simple language to make it accessible, and every effort has been made to clarify the concepts indispensable for perfect understanding of the

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process of programming a microcontroller, making it useful to the widest possible audience and thus preparing the foundation that serves as a starting point for further study and the basis for what will follow

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in the other two volumes that continue the series. Arduino is a versatile and incredibly useful tool in many professional and technical fields. Educational facilities are putting more emphasis on Arduino than ever

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before because of its effectiveness, practicality, usability, and convenience that it provides to users. If you are one of those people who wish to explore the world of Arduino and fortify your pre-existing concepts

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with even more advanced techniques, then look no further. Many books in the market discussing Arduino tends to focus on one particular aspect, i.e., practical implementation or coding. However, this book

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creates harmony between these two elements, so that the reader gets the best of both worlds. Everything that you will learn about coding or handling Arduino hardware and every concept is not only comprehensively

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explained but demonstrated in Arduino projects as well. Since Arduino is even used in highly technical fields such as mechatronics and medicine, this book aims to bring the bar a bit lower and provide the reader

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with concepts and knowledge geared more towards Arduino's general use. Here are a few key features of this book: -Easy to understand explanations of advanced concepts without using excessive jargon.-Emphasis on

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practical Arduino projects and advanced coding techniques.-Carefully structured chapters. The position of each chapter builds upon the discussion and concepts highlighted in the preceding

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chapters. -Techniques for efficient memory handling.-Concepts of advanced Arduino software and hardware handling.-Implementing the coding techniques discussed in this book to create Arduino

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projects.-Concepts are grouped into their respective chapters for easier learning and referencelf you're interested in learning to implement advanced strategies for Arduino programing, then grab your copy to get start today!

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Beginning Arduino

Arduino in Action

Cool Projects for Open Source
Hardware

The Ultimate Beginner's Guide
with Basics on Hardware,

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Software, Programming & DIY Projects

Discover all the amazing things you can do with Arduino Arduino is a programmable circuit board that is being used by everyone from scientists, programmers, and

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hardware hackers to artists, designers, hobbyists, and engineers in order to add interactivity to objects and projects and experiment with programming and electronics. This easy-to-understand book is an ideal place to start if you are interested in

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learning more about Arduino's vast capabilities. Featuring an array of cool projects, this Arduino beginner guide walks you through every step of each of the featured projects so that you can acquire a clear understanding of the different aspects

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*of the Arduino board. Introduces
Arduino basics to provide you with a
solid foundation of understanding
before you tackle your first project
Features a variety of fun projects that
show you how to do everything from
automating your garden's watering*

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system to constructing a keypad entry system, installing a tweeting cat flap, building a robot car, and much more Provides an easy, hands-on approach to learning more about electronics, programming, and interaction design for Makers of all ages Arduino

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Create your own Arduino-based designs, gain in-depth knowledge of the architecture of Arduino, and learn the user-friendly Arduino language all in the context of practical projects that you can build

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yourself at home. Get hands-on experience using a variety of projects and recipes for everything from home automation to test equipment. Arduino has taken off as an incredibly popular building block among ubicomp (ubiquitous computing)

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*enthusiasts, robotics hobbyists, and
DIY home automation developers.
Authors Jonathan Oxaer and Hugh
Blemings provide detailed instructions
for building a wide range of both
practical and fun Arduino-related
projects, covering areas such as*

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*hobbies, automotive, communications,
home automation, and
instrumentation. Take Arduino
beyond "blink" to a wide variety of
projects from simple to challenging
Hands-on recipes for everything from
home automation to interfacing with*

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your car engine management system

Explanations of techniques and

references to handy resources for

ubiquitous computing projects

Supplementary material includes a

circuit schematic reference,

introductions to a range of electronic

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engineering principles and general hints & tips. These combine with the projects themselves to make Practical Arduino: Cool Projects for Open Source Hardware an invaluable reference for Arduino users of all levels. You'll learn a wide variety of

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techniques that can be applied to your own projects.

The Arduino is a cheap, flexible, open source microcontroller platform designed to make it easy for hobbyists to use electronics in homemade projects. With an almost unlimited

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range of input and output add-ons, sensors, indicators, displays, motors, and more, the Arduino offers you countless ways to create devices that interact with the world around you. In Arduino Workshop, you'll learn how these add-ons work and how to

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integrate them into your own projects. You'll start off with an overview of the Arduino system but quickly move on to coverage of various electronic components and concepts. Hands-on projects throughout the book reinforce what you've learned and show you

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how to apply that knowledge. As your understanding grows, the projects increase in complexity and sophistication. Among the book's 65 projects are useful devices like: – A digital thermometer that charts temperature changes on an LCD –A

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GPS logger that records data from your travels, which can be displayed on Google Maps – A handy tester that lets you check the voltage of any single-cell battery – A keypad-controlled lock that requires a secret code to open You'll also learn to build

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Arduino toys and games like: – An electronic version of the classic six-sided die – A binary quiz game that challenges your number conversion skills – A motorized remote control tank with collision detection to keep it from crashing

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will teach you the tricks and design principles of a master craftsman.

Whatever your skill level, you'll have fun as you learn to harness the power of the Arduino for your own DIY projects. Uses the Arduino Uno board