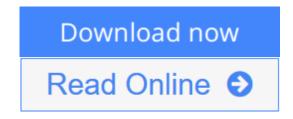# Arduino Development Cookbook

By Cornel Amariei

Arduino Development Cookbook By Cornel Amariei

Over 50 hands-on recipes to quickly build and understand Arduino projects, from the simplest to the most extraordinary

About This Book

- Get quick, clear guidance on all the principle aspects of integration with the Arduino
- Learn the tools and components needed to build engaging electronics with the Arduino
- Make the most of your board through practical tips and tricks

Who This Book Is For

If you want to build programming and electronics projects that interact with the environment, this book will offer you dozens of recipes to guide you through all the major applications of the Arduino platform. It is intended for programming or electronics enthusiasts who want to combine the best of both worlds to build interactive projects.

What You Will Learn

- Read data from sensors and take action based on the environment
- Use the Arduino to turn on lights, write to screens, or play light shows
- Manipulate motors and other actuators to control the movement of different objects
- Set up electronic circuits on a breadboard to interact with the Arduino
- Explore hacks to push your project to the next level
- Make your projects wireless and make them communicate with the computer

In Detail

The single-chip computer board Arduino is small in size but vast in scope, capable of being used for electronic projects from robotics through to home automation. The most popular embedded platform in the world, Arduino users

range from school children to industry experts, all incorporating it into their designs.

Arduino Development Cookbook comprises clear and step-by-step recipes that give you the toolbox of techniques to construct any Arduino project, from the simple to the advanced. Each chapter gives you more essential building blocks for Arduino development, from learning about programming buttons through to operating motors, managing sensors, and controlling displays. Throughout, you'll find tips and tricks to help you troubleshoot your development problems and push your Arduino project to the next level!

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Editorial Review

About the Author

Cornel Amariei

Cornel Amariei is a Romanian inventor and entrepreneur in the fields of Robotics and 3D printing. He has been working with the Arduino platform since its early days in 2007. His past experience involves large cargo gamma ray scanning robotics, ATM security systems, and blind assisting devices. In his spare time, he is a performing musician playing multiple instruments?predominately the guitar. He is also a swimmer, water polo player, and photographer. Over the years, he has built hundreds of Arduino projects, ranging from flying Quadcopters to levitating magnets and underwater robots. Currently, he splits his time between doing his undergraduate studies in electric engineering and computer science at Jacobs University in Bremen, Germany, and his start-ups and research and development job.

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From reader reviews:

Catherine Gabel:

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