



Programming Arduino with LabVIEW

Marco Schwartz, Oliver Manickum

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Build interactive and fun learning projects with Arduino using LabVIEW

About This Book

- Use LabVIEW to automate your Arduino projects without writing code
- Control your Arduino projects wirelessly from LabVIEW
- Multiple projects with step-by-step practical implementation

Who This Book Is For

If you already have some experience with LabVIEW and want to apply your skills to control physical objects and make measurements using the Arduino sensor, this book is for you. Prior knowledge of Arduino and LabVIEW is essential to fully understand the projects detailed in this book.

What You Will Learn

- Install LabVIEW and set it up to interface with Arduino
- Automate your Arduino projects with LabVIEW via a USB cable or XBee
- Control a servo motor and a smart power switch from LabVIEW
- Make a simple weather measurement station using Arduino and LabVIEW
- Build a simple wireless alarm system
- Manoeuvre an Arduino-based robot wirelessly via LabVIEW
- Collect feedback from the robot sensors using Arduino and LabVIEW

In Detail

This book covers several projects that you can build using LabVIEW and Arduino. You will learn how to use LabVIEW to control your Arduino projects simply by dragging and dropping blocks in LabVIEW.

The book starts with some basic projects that you will create in order to learn how to interface LabVIEW and Arduino. For example, you will learn how to control a motor from the LabVIEW interface. Then, the book dives into more complex projects, such as building a weather measurement station, making a simple alarm system, and controlling a mobile robot wirelessly via LabVIEW.

Going through the projects of this book will allow you to automate your Arduino projects without writing a single line of code, therefore creating complex projects in little time.

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