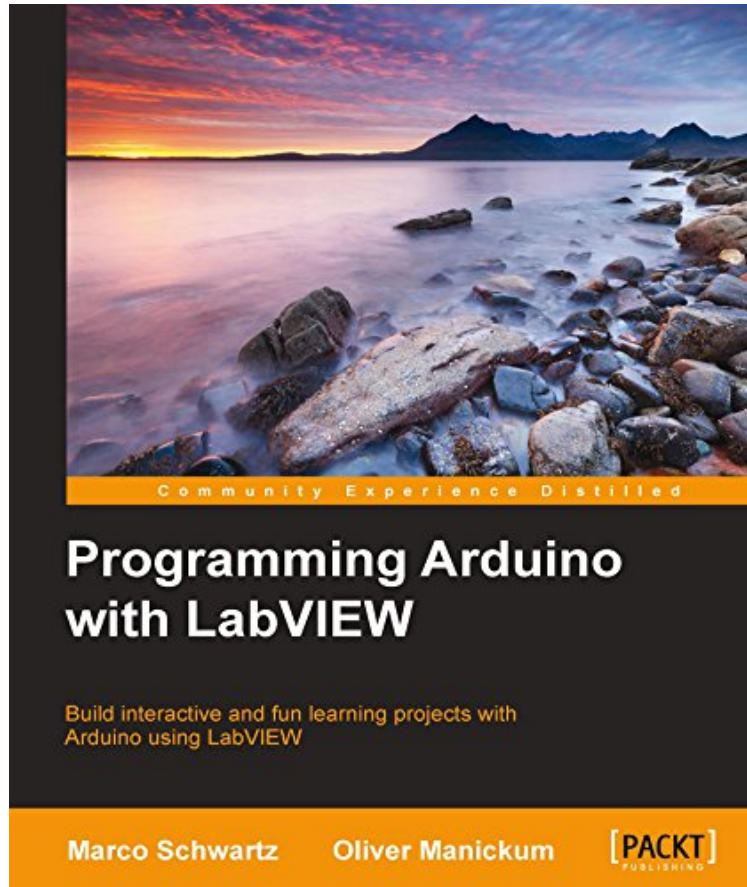


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# Programming Arduino with LabVIEW

Von Marco Schwartz, Oliver Manickum  
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Kurzbeschreibung 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.

ber den Autor und weitere Mitwirkende Marco Schwartz Marco Schwartz is an electrical engineer, entrepreneur, and blogger. He has a master's degree in electrical engineering and computer science from SUPELEC in France and a master's degree in micro engineering from the EPFL in Switzerland. He has more than 5 years of experience working in the domain of electrical engineering. His interests gravitate around electronics, home automation, the Arduino and Raspberry Pi platforms, open source hardware projects, and 3D printing. He also runs several websites on Arduino, including the <http://www.openhomeautomation.net/> website, which is dedicated to building home automation systems using open source hardware. He has written another book called *Arduino Home Automation Projects*, Packt Publishing, on home automation and Arduino and also published a book called *Internet of Things with the Arduino*, on how to build Internet-of-Things projects with Arduino.

Oliver Manickum Oliver Manickum has been working in the embedded development scene for almost 20 years. His favorite development platform is Arduino. He has delivered thousands of projects and is a big fan of ATMEL and the Arduino platform. He currently writes high-performance games on mobile platforms; however, developing prototypes with Arduino is his main hobby. He has also reviewed *Netduino Home Automation Projects*, Matt Cavanagh.