PiBot: Build Your Own Raspberry Pi Powered Robot

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Since the Raspberry Pi was released in 2012, it has changed the game for both professionals and hobbyists alike. Its small size (about the size of a credit card) and low price have made it a popular alternative to the Arduino microprocessor for projects ranging from home automation to web servers to mobile image processing. Its ARM processor allows it to run a version of Debian Linux, and it can be configured to work with the physical world via onboard GPIO pins and optional extra equipment. This book is not a collection of projects for the Pi. Rather, it takes one project - a small mobile robot - and takes you step-by-step through the process of building one, from installing the libraries needed to access the GPIO pins to configuring a wireless adapter to some suggestions (not explicit instructions) on how to construct the bot's body. When you have finished, you will have a working robot that you can log into and control remotely via command line, with the possibility of using a shell or a Python script. Complete with full-color photographs and a collection of resources about where to buy/download/obtain the necessary ingredients, the author also offers free support for those with questions or problems building their bot. For anyone who has wanted to do something a little more impressive with their Pi, this book is a must-have! **NEW - Companion course on Udemy:** The PiBot course on Udemy (http://www.udemy.com/raspberry-pi-pibot) is now active as well. Included in the purchase of this book is a promotional coupon for a discount on the course. For those that would like a more structured, lecture-based approach to building their bot, it's the perfect add-on to the book!

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