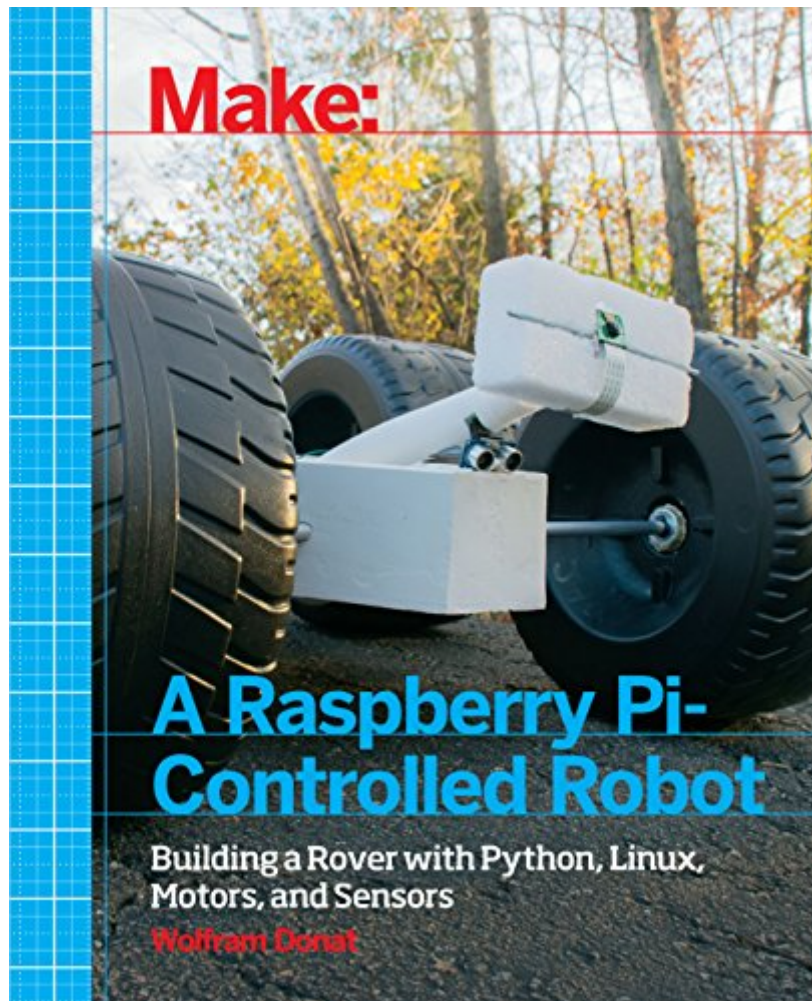


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Make A Raspberry Pi-Controlled Robot: Building A Rover With Python, Linux, Motors, And Sensors



Synopsis

Make a Raspberry-Pi Controlled Robot teaches you how to build a capable and upgradeable personal robot for around \$100. You'll learn how to control servos, respond to sensor input, and know where your bot is using GPS. You'll also learn many ways to connect to your robot and send it instructions, from an SSH connection to sending text messages from your phone.

Book Information

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Customer Reviews

I wanted very much to like this book, but I just can't... When an author takes on the endeavour of teaching the reader about something, they take on the responsibility to do so accurately. This is especially true on technical subject. Unfortunately, this book falls way short. At first I thought the author just wasn't a hardware guy. I've run into this in the past. My freshman year, I had a EE-Digital Design professor that didn't truly understand the analog the digital world is built on. He could quote the "rules" of EE-DD off the top of his head, but didn't know why they existed or how to tweak them to his use. I thought this after reading things like saying that there's the hall effect sensor is "nothing

more than a simple switch". Yes, you can purchase a Hall Effect SWITCH, but the author shows a phidgets 1108 Hall Effect SENSOR - an analog device. Even a simple look at the phidgets page for the part shows it is "provides a voltage output that is proportional to the applied magnetic field." So no, it is NOT "nothing more than a simple switch". He also writes that he sees little use for such a device on a rover "outside a certain small niche of applications". The most common use for the device is rotational speed encoding... like used when trying to keep 2 motors running at the same speed to make a rover go in a straight line. Maybe the author should have look at Make:Sensors on the subject which even mentions speed encoding and talks about how to read it as an analog device. Then a page later or so, he tells about pull up/down resistors. He fairly accurately describes their use and floating inputs, but then writes that we can "do the same in code".

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