Beaglebone Robotic Projects Grimmett Richard

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technology to build a biped robot that can interact with its environment. We start off by explaining the basics of getting your Raspberry Pi up and running, ready to be mounted on your biped platform. After this, you will be introduced to the art of constructing a mechanism for the biped platform. You will then learn to develop a vision system for your robot, as well as a means by which you can control and monitor it. At the end of this book, you will have learned enough to build a complex biped robot that can walk, turn, find its way, and "see" its environment.

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we'll walk through the basic robotics concepts that the world of Raspberry Pi offers us, implementing wireless communication to control your robot from a distance. Next, we demonstrate how to build a sensible and a visionary robot, maximizing the use of sensors and step controllers. After that, we focus on building a wheeled robot that can draw and play hockey. To finish with a bang, we'll build an autonomous hexcopter, that is, a flying robot controlled by Raspberry Pi. By the end of this book, you will be a maestro in applying an array of different technologies to create almost any imaginable robot. Style and approach This book is an easy-to-follow, project-based guide that throws you directly into the action of creating almost any imaginable robot through blueprints. It is full of step by step instructions and screenshots to help you build amazing robots in no time at all.
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