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the popular Arduino microcontroller      *Learn Robotics Programming* Danny Staple,2018-11-29 Build and program intelligent robots using Python and Raspberry Pi with this beginner friendly guide packed with hands on projects that introduce core concepts in robotics automation and AI Key Features Get up and running with robotics by building your first intelligent robot using Python and Raspberry Pi Learn to integrate sensors motors and wireless controls to create interactive autonomous behaviors powered by real world input Discover beginner friendly AI concepts like speech recognition and image processing and control your robot remotely using Wi Fi or mobile devices Book DescriptionWe live in an age where the most difficult human tasks are now automated Smart and intelligent robots which will perform different tasks precisely and efficiently are the requirement of the hour A combination of Raspberry Pi and Python works perfectly when making these kinds of robots *Learn Robotics Programming* starts by introducing you to the basic structure of a robot along with how to plan build and program it As you make your way through the book you will gradually progress to adding different outputs and sensors learning new building skills and writing code for interesting behaviors with sensors You ll also be able to update your robot and set up web phone and Wi Fi connectivity in order to control it By the end of the book you will have built a clever robot that can perform basic artificial intelligence AI operations What you will learn Configure a Raspberry Pi for use in a robot Interface motors and sensors with a Raspberry Pi Implement code to make interesting and intelligent robot behaviors Understand the first steps in AI behavior such as speech recognition visual processing Control AI robots using Wi Fi Plan the budget for requirements of robots while choosing parts Who this book is for This book is ideal for beginner programmers developers and tech enthusiasts interested in robotics and developing a fully functional robot Whether you re a self learner or a maker with an interest in automation this hands on guide will help you build real working robots from scratch No prior experience in robotics or electronics is required just basic programming knowledge and a curiosity to learn

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**Getting to Know Arduino** Heather Moore Niver,2014-07-15 This book covers the particulars of Arduino s hardware and software its capabilities pros and cons of the platform and examples of the creativity its use engenders The Arduino programming language is used to operate microcontrollers which are essentially mini computers that trigger physical systems such as lights and motors

*Minds and Machines* Michael R. W. Dawson,2008-04-15 Minds and Machines Connectionism and Psychological Modeling examines different kinds of models and investigates some of the basic properties of connectionism in the context of synthetic psychology including detailed accounts of how the internal structure of connectionist networks can be interpreted Introduces connectionist models as tools that are both synthetic and representational and which can be used as the basis for conducting synthetic psychology Includes distinctively varied account of modeling historical overview of the synthetic approach and unique perspectives on connectionism Investigates basic properties of connectionism in the context of synthetic psychology including detailed accounts of how the internal structure can be interpreted Provides supplementary material online at [www.bcp.psych.ualberta.ca/mike/Book2](http://www.bcp.psych.ualberta.ca/mike/Book2) which includes free software for conducting connectionist simulations and instructions for building simple robots

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