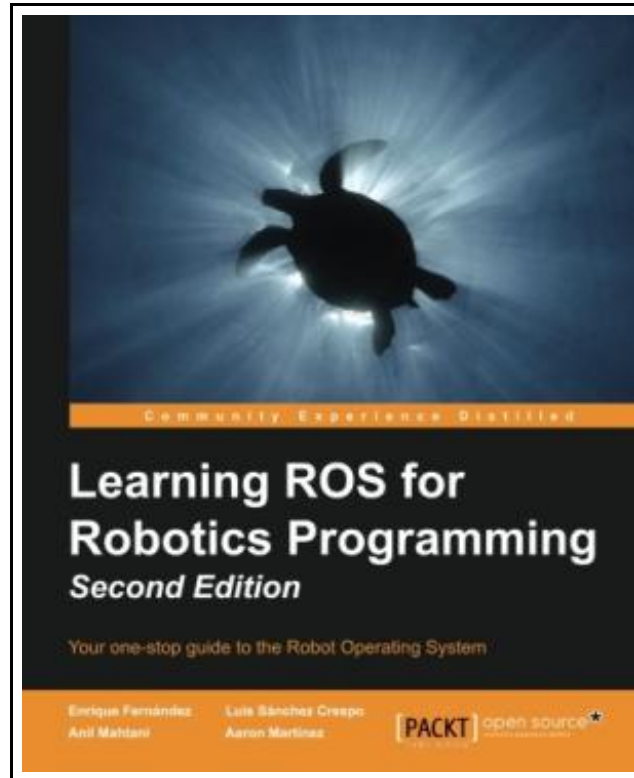# Learning ROS for Robotics Programming (Paperback)

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Reviews

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(Prof. Jeremie Kozey)

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Packt Publishing Limited, United Kingdom, 2015. Paperback. Book Condition: New. 2nd Revised edition. 235 x 190 mm. Language: English . Brand New Book. Your one-stop guide to the Robot Operating System About This Book * Model your robot on a virtual world and learn how to simulate it * Create, visualize, and process Point Cloud information * Easy-to-follow, practical tutorials to program your own robots In Detail If you have ever tried building a robot, then you know how cumbersome programming everything from scratch can be. This is where ROS comes into the picture. It is a collection of tools, libraries, and conventions that simplifies the robot building process. What s more, ROS encourages collaborative robotics software development, allowing you to connect with experts in various fields to collaborate and build upon each other s work. Packed full of examples, this book will help you understand the ROS framework to help you build your own robot applications in a simulated environment and share your knowledge with the large community supporting ROS. Starting at an introductory level, this book is a comprehensive guide to the fascinating world of robotics, covering sensor integration, modeling, simulation, computer vision, navigation algorithms, and more. You will then go on to explore concepts like topics, messages, and nodes. Next, you will learn how to make your robot see with HD cameras, or navigate obstacles with range sensors. Furthermore, thanks to the contributions of the vast ROS community, your robot will be able to navigate autonomously, and even recognize and interact with you in a matter of minutes. What s new in this updated edition? First and foremost, we are going to work with ROS Hydro this time around. You will learn how to create, visualize, and process Point Cloud information from different sensors. This edition will...

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