



Community Experience Distilled

Learning Robotics Using Python

Design, simulate, program, and prototype an interactive autonomous mobile robot from scratch with the help of Python, ROS, and Open-CV!

Lentin Joseph

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Lentin Joseph



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Learning Robotics Using Python Lentin Joseph,2015-05-27 If you are an engineer a researcher or a hobbyist and you are interested in robotics and want to build your own robot this book is for you Readers are assumed to be new to robotics but should have experience with Python

Python Robotics Projects Diwakar Vaish,2018-05-25 Leverage the power of Python to build DIY robotic projects Key Features Design build and stimulate collaborative robots Build high end robotics projects such as a customized personal Jarvis Leverage the power of Python and ROS for DIY robotic projects Book Description Robotics is a fast growing industry Multiple surveys state that investment in the field has increased tenfold in the last 6 years and is set to become a 100 billion sector by 2020 Robots are prevalent throughout all industries and they are all set to be a part of our domestic lives This book starts with the installation and basic steps in configuring a robotic controller You ll then move on to setting up your environment to use Python with the robotic controller You ll dive deep into building simple robotic projects such as a pet feeding robot and more complicated projects such as machine learning enabled home automation system Jarvis vision processing based robots and a self driven robotic vehicle using Python By the end of this book you ll know how to build smart robots using Python What you will learn Get to know the basics of robotics and its functions Walk through interface components with microcontrollers Integrate robotics with the IoT environment Build projects using machine learning Implement path planning and vision processing Interface your robots with Bluetooth Who this book is for If building robots is your dream then this book is made for you Prior knowledge of Python would be an added advantage

[Super Easy ROS Python](#) James Hunter,2025-04-30 Super Easy ROS Python A Beginner Friendly Step by Step Guide to the Robot Operating System Using Only Python Ever wanted to build a real robot but got stuck in the maze of C code and cryptic launch files You re not alone Robotics can seem intimidating but with Python and this book it doesn t have to be Super Easy ROS Python is your fast track introduction to Robot Operating System ROS development using pure Python Whether you re a student hobbyist or professional looking to break into robotics this book walks you through everything from basic ROS concepts to advanced robot control one clear practical step at a time

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