

Microsoft Robotics Developer Studio

Sara Morgan

Professional Microsoft Robotics Developer Studio Kyle Johns,Trevor Taylor,2009-02-10 Microsoft Robotics Developer Studio (MRDS) offers an exciting new way to program robots in the Windows environment. With key portions of the MRDS code available in source form, it is readily extensible and offers numerous opportunities for programmers and hobbyists. This comprehensive book illustrates creative ways to use the tools and libraries in MRDS so you can start building innovative new robotics applications. The book begins with a brief overview of MRDS and then launches into MRDS concepts and takes a look at fundamental code patterns that can be used in MRDS programming. You'll work through examples—all in C#—of common tasks, including an examination of the physics features of the MRDS simulator. As the chapters progress, so does the level of difficulty and you'll gradually evolve from navigating a simple robot around a simulated course to controlling simulated and actual robotic arms, and finally, to an autonomous robot that runs with an embedded PC or PDA. What you will learn from this book How to program in the multi-threaded environment provided by the concurrency and coordination runtime Suggestions for starting and stopping services, configuring services, and packaging your services for deployment Techniques for building new services from scratch and then testing them How to build your own simulated environments and robots using the Visual Simulation Environment What robots are supported under MRDS and how to select one for purchase Who this book is for This book is for programmers who are interested in becoming proficient in the rapidly growing field of robotics. All examples featured in the book are in C#, which is the preferred language for MRDS.

Robot Development Using Microsoft Robotics Developer Studio Shih-Chung Kang,Wei-Tze Chang,Kai-Yuan Gu,Hung-Lin Chi,2016-04-19 The Microsoft® Robotics Developer Studio (MSRDS) and LEGO® robots together offer a flexible platform for creating robotic systems. Designed for novices with basic programming skills, Robot Development Using Microsoft® Robotics Developer Studio provides clear instructions on developing and operating robots. It includes an extensive array of examples, with corresponding step-by-step tutorials and explanations. The first several chapters of the book introduce the development environment of MSRDS, including concurrency and coordination runtime (CCR), decentralized software services (DSS), visual simulation environment (VSE), and the Microsoft Visual Programming Language (MVPL). The text then covers the inputs and outputs to the robot and control logic and describes how MSRDS can be used to control a LEGO robot's hearing and vision. It also presents a real-life example involving a sumo robot contest. The final chapter provides information on related academic courses, websites, and books. The top-down approach used in this text helps readers think of a robot as a system rather than an assemblage of parts. Readers gain an understanding of methods for integration, design trade-offs, and teamwork—all essential skills for building robots. The MSRDS codes for all examples are available at <http://msrds.caece.net/>

Programming Microsoft Robotics Studio Sara Morgan,2008 Provides information on building robotic applications using Microsoft Robotics Studio.

Start Here! Learn the Kinect API Rob Miles,2012-07-15 Ready to learn Kinect programming? Start Here! Learn the fundamentals of programming with the Kinect API—and begin building apps that use motion tracking, voice recognition, and more. If you have experience programming with C#—simply start here! This book introduces must-know concepts and techniques through easy-to-follow explanations, examples, and exercises. Here's where you start learning Kinect Build an application to display Kinect video on your PC Have Kinect take photographs when it detects movement Draw on a computer screen by moving your finger in the air Track your body gestures and use them to control a program Make a program that understands your speech and talks back to you Play a part in your own augmented reality game Create an air piano using Kinect with a MIDI device

Building Bots with Microsoft Bot Framework Kishore Gaddam,2017-05-31 Build intelligent and smart conversational interfaces using Microsoft Bot Framework About This Book Develop various real-world intelligent bots from scratch using Microsoft Bot Framework Integrate your bots with most popular conversation platforms such as Skype, Slack, and Facebook Messenger Flaunt your bot building skills in your organization by thoroughly understanding and implementing the bot development concepts such as messages (rich text and pictures), dialogs, and third-party authentication and calling Who This Book Is For This book is for developers who are keen on building powerful services with great and interactive bot interface. Experience with C# is needed. What You Will Learn Set up a development environment and install all the required software to get started programming a bot Publish a bot to Slack, Skype, and the Facebook Messenger platform Develop a fully functional weather bot that communicates the current weather in a given city Help your bot identify the intent of a text with the help of LUIS in order to make decisions Integrate an API into your bot development Build an IVR solution Explore the concept of MicroServices and see how MicroServices can be used in bot development Develop an IoT project, deploy it, and connect it to a bot In Detail Bots help users to use the language as a UI and interact with the applications from any platform. This book teaches you how to develop real-world bots using Microsoft Bot Framework. The book starts with setting up the Microsoft Bot Framework development environment and emulator, and moves on to building the first bot using Connector and Builder SDK. Explore how to register, connect, test, and publish your bot to the Slack, Skype, and Facebook Messenger platforms. Throughout this book, you will build different types of bots from simple to complex, such as a weather bot, a natural speech and intent processing bot, an Interactive Voice Response (IVR) bot for a bank, a facial expression recognition bot, and more from scratch. These bots were designed and developed to teach you concepts such as text detection, implementing LUIS dialogs, Cortana Intelligence Services, third-party authentication, Rich Text format, Bot State Service, and microServices so you can practice working with the standard development tools such as Visual Studio, Bot Emulator, and Azure. Style and approach This step-by-step guide takes a learn-while-doing approach, delivering the practical knowledge and experience you need to design and build real-world Bots. The concepts come to you on an as-needed basis while developing a bot so you increase your programming knowledge and experience at the same time.

Programming for the Internet of Things Dawid Borycki,2017-05-26 Rapidly implement Internet of Things solutions Creating programs for the Internet of Things offers you an opportunity to build and program custom devices whose functionality is limited only by your imagination. This book teaches you to do exactly that, with solutions presented in a step-by-step format. When you read this book, you not only learn the fundamentals of device programming, you will also be ready to write code for revolutionizing devices and robots. You don't need to be an expert in low-level programming to benefit from this book. It explains basic concepts and programming techniques before diving into the more complicated topics. Each of the book's chapters and appendices contains a suitable level of detail to help you quickly master device programming. MCP Dawid Borycki shows you how to: Build Universal Windows Platform (UWP) applications that target interconnected embedded devices Design and

implement background apps for seamless integration with hardware components Use intrinsic UWP functionality to detect and track human faces Build artificial auditory, visual, and learning systems Process audio signals to blink LEDs to the rhythm of music Use OpenCV to develop custom image-processing algorithms Communicate with external devices by using serial, USB, Wi-Fi, and AllJoyn connectivity Design and implement applications to control DC, stepper, and servo motors for robotics Use Microsoft Cognitive Services to detect human emotions Build predictive analysis and preventive maintenance systems by using the Azure IoT Suite

The Robotic Process Automation Handbook Tom Taulli,2020-02-28 While Robotic Process Automation (RPA) has been around for about 20 years, it has hit an inflection point because of the convergence of cloud computing, big data and AI. This book shows you how to leverage RPA effectively in your company to automate repetitive and rules-based processes, such as scheduling, inputting/transferring data, cut and paste, filling out forms, and search. Using practical aspects of implementing the technology (based on case studies and industry best practices), you'll see how companies have been able to realize substantial ROI (Return On Investment) with their implementations, such as by lessening the need for hiring or outsourcing. By understanding the core concepts of RPA, you'll also see that the technology significantly increases compliance – leading to fewer issues with regulations – and minimizes costly errors. RPA software revenues have recently soared by over 60 percent, which is the fastest ramp in the tech industry, and they are expected to exceed \$1 billion by the end of 2019. It is generally seamless with legacy IT environments, making it easier for companies to pursue a strategy of digital transformation and can even be a gateway to AI. The Robotic Process Automation Handbook puts everything you need to know into one place to be a part of this wave. What You'll Learn Develop the right strategy and plan Deal with resistance and fears from employees Take an in-depth look at the leading RPA systems, including where they are most effective, the risks and the costs Evaluate an RPA system Who This Book Is For IT specialists and managers at mid-to-large companies

Cool Tech Clive Gifford, Mike Goldsmith, 2011 How many times a day do you connect to the digital world? You text, tweet, stream songs, watch videos, and play games. But do you know how it all works? Leap inside to discover the technology behind the coolest gadgets and meet the people with the big ideas. Find out what robots are up to, how a video game is made, and how the internet affects your life. P. [4] of cover.

Programming Robots with ROS Morgan Quigley, Brian Gerkey, William D. Smart, 2015-11-16 Chapter 3. Topics; Publishing to a Topic; Checking That Everything Works as Expected; Subscribing to a Topic; Checking That Everything Works as Expected; Latched Topics; Defining Your Own Message Types; Defining a New Message; Using Your New Message; When Should You Make a New Message Type?; Mixing Publishers and Subscribers; Summary; Chapter 4. Services; Defining a Service; Implementing a Service; Checking That Everything Works as Expected; Other Ways of Returning Values from a Service; Using a Service; Checking That Everything Works as Expected; Other Ways to Call Services; Summary.

Microsoft Visual C# 2013 Step by Step John Sharp, 2013-11-15 Your hands-on guide to Visual C# fundamentals Expand your expertise—and teach yourself the fundamentals of Microsoft Visual C# 2013. If you have previous programming experience but are new to Visual C# 2013, this tutorial delivers the step-by-step guidance and coding exercises you need to master core topics and techniques. Discover how to: Create and debug C# applications in Visual Studio 2013 Work with variables, identifiers, statements, operators, and methods Create interfaces and define abstract classes Write robust code that can catch and handle exceptions Display and edit data using data binding with Microsoft ADO.NET Entity Framework Respond to user input and touchscreen gestures Handle events arising from multiple sources Develop your first Windows 8.1 apps

ROS Robotics By Example Carol Fairchild, Dr. Thomas L. Harman, 2016-06-30 Bring life to your robot using ROS robotic applications About This Book This book will help you boost your knowledge of ROS and give you advanced practical experience you can apply to your ROS robot platforms This is the only book that offers you step-by-step instructions to solidify your ROS understanding and gain experience using ROS tools From eminent authors, this book offers you a plethora of fun-filled examples to make your own quadcopter, turtlebot, and two-armed robots Who This Book Is For If you are a robotics developer, whether a hobbyist, researchers or professional, and are interested in learning about ROS through a hands-on approach, then this book is for you. You are encouraged to have a working knowledge of GNU/Linux systems and Python. What You Will Learn Get to know the fundamentals of ROS and apply its concepts to real robot examples Control a mobile robot to navigate autonomously in an environment Model your robot designs using URDF and Xacro, and operate them in a ROS Gazebo simulation Control a 7 degree-of-freedom robot arm for visual servoing Fly a quadcopter to autonomous waypoints Gain working knowledge of ROS tools such as Gazebo, rviz, rqt, and Move-It Control robots with mobile devices and controller boards In Detail The visionaries who created ROS developed a framework for robotics centered on the commonality of robotic systems and exploited this commonality in ROS to expedite the development of future robotic systems. From the fundamental concepts to advanced practical experience, this book will provide you with an incremental knowledge of the ROS framework, the backbone of the robotics evolution. ROS standardizes many layers of robotics functionality from low-level device drivers to process control to message passing to software package management. This book provides step-by-step examples of mobile, armed, and flying robots, describing the ROS implementation as the basic model for other robots of these types. By controlling these robots, whether in simulation or in reality, you will use ROS to drive, move, and fly robots using ROS control. Style and approach This is an easy-to-follow guide with hands-on examples of ROS robots, both real and in simulation.

Consciousness And Robot Sentience (Second Edition) Haikonen Pentti O A, 2019-05-23 THIS BOOK is the fully revised and updated second edition of 'Consciousness and Robot Sentience'. With lots of new material, it will provide new insights into artificial intelligence (AI) and machine consciousness, beyond materials published in the first edition. The organization of this book has been streamlined for better clarity and continuity of the lines of arguments. The perspective of AI has been added to this edition. It is shown that contemporary AI has a hidden problem, which prevents it from becoming a true intelligent agent. A self-evident solution to this problem is given in this book. This solution is surprisingly connected with the concepts of qualia, the mind-body problem and consciousness. These are the hard problems of consciousness that so far have been without viable solution. Unfortunately, the solution to the hidden problem of AI cannot be satisfactorily implemented, unless the phenomena of qualia and consciousness are first understood. In this book an explanation of consciousness is presented, one that rejects material and immaterial substances, dualism, panpsychism, emergence and metaphysics. What remains is obvious. This explanation excludes consciousness in digital computers, but

allows the artificial creation of consciousness in one natural-like way, by associative non-computational neural networks. The proof of a theory calls for empirical verification. In this case, the proof could be in the form of a sentient robot. This book describes a step towards this in the form of the author's small experimental robot XCR-1. This robot has evolved through the years, and has now new cognitive abilities, which are described.

Kinect for Windows SDK Programming Guide Abhijit Jana, 2012-01-01 This book is a practical tutorial that explains all the features of Kinect SDK by creating sample applications throughout the book. It includes a detailed discussion of APIs with step-by-step explanation of development of a real-world sample application. The purpose of this book is to explain how to develop applications using the Kinect for Windows SDK. If you are a beginner and looking to start developing applications using the Kinect for Windows SDK, and if you want to build motion-sensing, speech-recognizing applications with Kinect, this book is for you. This book uses C# and WPF (Windows P).

Robotics, Vision and Control Peter Corke, 2011-09-05 The author has maintained two open-source MATLAB Toolboxes for more than 10 years: one for robotics and one for vision. The key strength of the Toolboxes provide a set of tools that allow the user to work with real problems, not trivial examples. For the student the book makes the algorithms accessible, the Toolbox code can be read to gain understanding, and the examples illustrate how it can be used –instant gratification in just a couple of lines of MATLAB code. The code can also be the starting point for new work, for researchers or students, by writing programs based on Toolbox functions, or modifying the Toolbox code itself. The purpose of this book is to expand on the tutorial material provided with the toolboxes, add many more examples, and to weave this into a narrative that covers robotics and computer vision separately and together. The author shows how complex problems can be decomposed and solved using just a few simple lines of code, and hopefully to inspire up and coming researchers. The topics covered are guided by the real problems observed over many years as a practitioner of both robotics and computer vision. It is written in a light but informative style, it is easy to read and absorb, and includes a lot of Matlab examples and figures. The book is a real walk through the fundamentals of robot kinematics, dynamics and joint level control, then camera models, image processing, feature extraction and epipolar geometry, and bring it all together in a visual servo system. Additional material is provided at <http://www.petercorke.com/RVC>

Learn to Program with Small Basic Majed Marji, Ed Price, 2016-04-16 Small Basic is a free, beginner-friendly programming language created by Microsoft. Inspired by BASIC, which introduced programming to millions of first-time PC owners in the 1970s and 1980s, Small Basic is a modern language that makes coding simple and fun. Learn to Program with Small Basic introduces you to the empowering world of programming. You'll master the basics with simple activities like displaying messages and drawing colorful pictures, and then work your way up to programming games! Learn how to: –Program your computer to greet you by name –Make a game of rock-paper-scissors using If/Else statements –Create an interactive treasure map using arrays –Draw intricate geometric patterns with just a few lines of code –Simplify complex programs by breaking them into bite-sized subroutines You'll also learn to command a turtle to draw shapes, create magical moving text, solve math problems quickly, help a knight slay a dragon, and more! Each chapter ends with creative coding challenges so you can take your skills to the next level. Learn to Program with Small Basic is the perfect place to start your computer science journey.

Reactive Programming for .NET Developers Antonio Esposito, Michael Ciceri, 2016-07-29 Get up and running with reactive programming paradigms to build fast, concurrent, and powerful applications About This Book Get to grips with the core design principles of reactive programming Learn about Reactive Extensions for .NET through real-world examples Improve your problem-solving ability by applying functional programming Who This Book Is For If you are a .NET developer who wants to implement all the reactive programming paradigm techniques to create better and more efficient code, then this is the book for you. No prior knowledge of reactive programming is expected. What You Will Learn Create, manipulate, and aggregate sequences in a functional-way Query observable data streams using standard LINQ query operators Program reactive observers and observable collections with C# Write concurrent programs with ease, scheduling actions on various workers Debug, analyze, and instrument Rx functions Integrate Rx with CLR events and custom scheduling Learn Functional Reactive Programming with F# In Detail Reactive programming is an innovative programming paradigm focused on time-based problem solving. It makes your programs better-performing, easier to scale, and more reliable. Want to create fast-running applications to handle complex logics and huge datasets for financial and big-data challenges? Then you have picked up the right book! Starting with the principles of reactive programming and unveiling the power of the pull-programming world, this book is your one-stop solution to get a deep practical understanding of reactive programming techniques. You will gradually learn all about reactive extensions, programming, testing, and debugging observable sequence, and integrating events from CLR data-at-rest or events. Finally, you will dive into advanced techniques such as manipulating time in data-flow, customizing operators and providers, and exploring functional reactive programming. By the end of the book, you'll know how to apply reactive programming to solve complex problems and build efficient programs with reactive user interfaces. Style and approach This is a concise reference manual for reactive programming with Rx for C# and F# using real-world, practical examples.

Software Engineering for Robotics Ana Cavalcanti, Brijesh Dongol, Rob Hierons, Jon Timmis, Jim Woodcock, 2021-07-05 The topics covered in this book range from modeling and programming languages and environments, via approaches for design and verification, to issues of ethics and regulation. In terms of techniques, there are results on model-based engineering, product lines, mission specification, component-based development, simulation, testing, and proof. Applications range from manufacturing to service robots, to autonomous vehicles, and even robots that evolve in the real world. A final chapter summarizes issues on ethics and regulation based on discussions from a panel of experts. The origin of this book is a two-day event, entitled RoboSoft, that took place in November 2019, in London. Organized with the generous support of the Royal Academy of Engineering and the University of York, UK, RoboSoft brought together more than 100 scientists, engineers and practitioners from all over the world, representing 70 international institutions. The intended readership includes researchers and practitioners with all levels of experience interested in working in the area of robotics, and software engineering more generally. The chapters are all self-contained, include explanations of the core concepts, and finish with a discussion of directions for further work. Chapters 'Towards Autonomous Robot Evolution', 'Composition, Separation of Roles and Model-Driven Approaches as Enabler of a Robotics Software Ecosystem' and 'Verifiable Autonomy and Responsible Robotics' are available open access under a Creative Commons

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Azure IoT Development Cookbook Yatish Patil, 2017-08-11 Over 50 recipes to drive IoT innovation with Microsoft Azure About This Book Build secure and scalable IoT solutions with Azure IoT platform Learn techniques to build end-to-end IoT solutions leveraging the Azure IoT platform Filled with practical recipes to help you increase connectivity and automation across IoT devices Who This Book Is For If you are an application developer and want to build robust and secure IoT solution for your organization using Azure IoT, then this book is for you. What You Will Learn Build IoT Solutions using Azure IoT & Services Learn device configuration and communication protocols Understand IoT Suite and Pre-configured solutions Manage Secure Device communications Understand Device management, alerts Introduction with IoT Analytics, reference IoT Architectures Reference Architectures from Industry Pre-Configured IoT Suite solutions In Detail Microsoft's end-to-end IoT platform is the most complete IoT offering, empowering enterprises to build and realize value from IoT solutions efficiently. It is important to develop robust and reliable solutions for your organization to leverage IoT services. This book focuses on how to start building custom solutions using the IoT hub or the preconfigured solution of Azure IoT suite. As a developer, you will be taught how to connect multiple devices to the Azure IoT hub, develop, manage the IoT hub service and integrate the hub with cloud. We will be covering REST APIs along with HTTP, MQTT and AMQP protocols. It also helps you learn Pre-Configured IoT Suite solution. Moving ahead we will be covering topics like:-Process device-to-cloud messages and cloud-to-device messages using .Net-Direct methods and device management-Query Language, Azure IoT SDK for .Net-Creating and managing, Securing IoT hub, IoT Suite and many more. We will be using windows 10 IoT core, Visual Studio, universal Windows platform. At the end, we will take you through IoT analytics and provide a demo of connecting real device with Azure IoT. Style and approach A set of exciting recipes of using Microsoft Azure IoT more effectively.

A Gentle Introduction to ROS Jason M. O'Kane, 2013 ROS (Robot Operating System) is rapidly becoming a de facto standard for writing interoperable and reusable robot software. This book supplements ROS's own documentation, explaining how to interact with existing ROS systems and how to create new ROS programs using C++, with special attention to common mistakes and misunderstandings. The intended audience includes new or potential ROS users.

Robotic Process Automation Projects Nandan Mullakara, Arun Kumar Asokan, 2020-05-26 Learn RPA by building business solutions such as ERP and CRM automation, software robots, and intelligent process automation from scratch Key Features Use popular RPA tools Automation Anywhere A2019 and UiPath, for real-world task automation Build automation solutions for domains such as System Administration, Finance, HR, Supply Chain, and Customer Relations Extend your RPA capabilities by implementing Intelligent process automation with APIs and AI Book Description Robotic Process automation helps businesses to automate monotonous tasks that can be performed by machines. This project-based guide will help you progress through easy to more advanced RPA projects. You'll learn the principles of RPA and how to architect solutions to meet the demands of business automation, along with exploring the most popular RPA tools - UiPath and Automation Anywhere. In the first part, you'll learn how to use UiPath by building a simple helpdesk ticket system. You'll then automate CRM systems by integrating Excel data with UiPath. After this, the book will guide you through building an AI-based social media moderator using Google Cloud Vision API. In the second part, you'll learn about Automation Anywhere's latest Cloud RPA platform (A2019) by creating projects such as an automated ERP administration system, an AI bot for order and invoice processing, and an automated emergency notification system for employees. Later, you'll get hands-on with advanced RPA tasks such as invoking APIs, before covering complex concepts such as Artificial Intelligence (AI) and machine learning in automation to take your understanding of RPA to the next level. By the end of the book, you'll have a solid foundation in RPA with experience in building real-world projects. What you will learn Explore RPA principles, techniques, and tools using an example-driven approach Understand the basics of UiPath by building a helpdesk ticket generation system Automate read and write operations from Excel in a CRM system using UiPath Build an AI-based social media moderator platform using Google Cloud Vision API with UiPath Explore how to use Automation Anywhere by building a simple sales order processing system Build an automated employee emergency reporting system using Automation Anywhere Test your knowledge of building an automated workflow through fun exercises Who this book is for This RPA book is for enterprise application developers, software developers, business analysts, or any professional who wants to implement RPA across various domains of the business. The book assumes some understanding of enterprise systems. Computer programming experience will also be beneficial.

Unveiling the Power of Verbal Art: An Psychological Sojourn through **Microsoft Robotics Developer Studio**

In a world inundated with screens and the cacophony of immediate interaction, the profound power and psychological resonance of verbal beauty frequently disappear into obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, set within the musical pages of **Microsoft Robotics Developer Studio**, a captivating work of literary brilliance that pulses with raw thoughts, lies an unique trip waiting to be embarked upon. Published with a virtuoso wordsmith, that magical opus guides viewers on a mental odyssey, gently revealing the latent potential and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book's main subjects, dissect its interesting writing model, and immerse ourselves in the indelible effect it leaves upon the depths of readers' souls.

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Microsoft Robotics Developer Studio Introduction

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