

Contents

- About the Author xi**
- About the Technical Reviewer xiii**
- Acknowledgments xv**
- Chapter 1: Introduction to Leap Motion..... 1**
 - Basics of Leap Motion 1
 - Axis Capability 3
 - Motion-Tracking Capabilities of Leap Motion 6
 - Frames 7
 - The Hand Model..... 7
 - The Finger and Tool Model..... 7
 - Gestures 7
 - Leap Motion Types..... 10
 - Summary 11
- Chapter 2: Setting Up Leap Motion 13**
 - Downloading the Leap Motion SDK 13
 - Installing the Leap Motion SDK 15
 - The Leap Motion Control Panel 24
 - Software Log 27
 - Diagnostic Visualizer 28
 - The Calibration Tool 29
 - Leap Motion App Home 30
 - Summary 30

■ Chapter 3: Setting Up Leap Motion for Python	31
Leap Motion and Python.....	31
Installing Python 2.7.....	33
The Python Not Found Issue.....	39
Setting Up Python for Leap Motion.....	42
Setting Up the Sublime Text Editor	43
Let's Code.....	45
Writing a Basic Leap Motion Program	45
Obtaining Values from the Leap Motion Device	50
Summary	52
■ Chapter 4: Leap Motion with Java	53
A Brief Discussion of Java.....	53
Getting Started with Eclipse IDE and Leap Motion	56
Installing Eclipse.....	56
Setting Up Eclipse.....	64
Let's Start Coding in Eclipse	77
Summary	82
■ Chapter 5: Getting Started with Unity and Leap Motion	83
The Unity Game Engine	83
Downloading Unity	84
Getting Started with Unity	86
Google Cardboard Leap Motion Integration.....	94
Summary.....	98

■ Chapter 6: Leap Motion with Processing	99
Introducing Processing.....	99
Environment	100
A First Processing App.....	102
Libraries.....	104
Leap Motion Processing Integration.....	107
Exporting the Application	115
Summary.....	117
■ Chapter 7: Leap Motion with Unreal Engine 4	119
Unreal Engine 4.13.....	119
Creating a Project.....	127
Starting a New Project	130
Default Pawn Class	136
Summary.....	138
■ Chapter 8: More on Unreal Engine 4 and Leap Motion	139
Extending the Project.....	139
Summary.....	144
■ Chapter 9: Setting Up Leap Motion with JavaScript	145
JavaScript and Leap Motion Sensor.....	145
CSS Visualizer	146
Using ThreeJS	156
Windows 10 UWP and the Leap Motion Controller	164
Summary.....	171
Index	173