



# Building Applications with iBeacon: Proximity and Location Services with Bluetooth Low Energy

By Matthew S. Gast

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**Building Applications with iBeacon: Proximity and Location Services with Bluetooth Low Energy** By Matthew S. Gast

High-precision location information is increasingly useful for mobile application developers, since it allows devices to interact with the world around them. This practical book shows you how to achieve arm's reach accuracy with iBeacons, simple transmitters that enable your applications to react to nearby surroundings and then deliver timely, relevant information—especially indoors, where GPS and cell service are inaccurate.

Whether you're enabling a map, giving users directions, creating a game, recommending purchases, letting users check in, or creating an immersive experience, you'll learn how iBeacons provide precise location information, empowering your applications to engage and interact with users nearby.

- Get examples of several application types you can build with iBeacons
- Learn how iBeacons provide applications with proximity information
- Set up, activate, and test iBeacons on both specialized and general-purpose hardware
- Explore the APIs and tools you need to develop location-aware mobile applications
- Use built-in iOS features to interact with iBeacons, including Passbook
- Build networks to help shoppers, travelers, conference attendees, and others find what they're looking for

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### **Editorial Review**

#### **About the Author**

Matthew Gast is the director of product management at Aerohive Networks, responsible for the software that powers Aerohive's networking devices. He has been active within the Wi-Fi community, serving as the chair of both security task groups at the Wi-Fi Alliance, where he leads efforts to extend the Wi-Fi Protected Access (WPA) certification to incorporate newly developed security technologies and drive adoption of the strongest forms of security by network administrators. He also led the Wi-Fi Alliance's Wireless Network Management marketing task group's investigation of certification requirements for new power-saving technologies. Matthew is also the past chair of the task group that produced the 802.11-2012 revision.

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