

AND303 – 1-Day Advanced Android – Bluetooth Low Energy Programming



In recent years, we have seen a proliferation of **Bluetooth Low Energy (Bluetooth LE)** devices. Bluetooth LE, as its name implies, uses low energy for transmitting data. This is very useful for devices that require long-battery life, such as heart rate monitor, temperature sensors, etc. In Android, Bluetooth LE functionalities weren't supported at the platform level until **Android 4.3**.

With Android 4.3, you can now write applications that use Bluetooth LE. Your application can now connect to heart monitors, as well as temperature sensors using Bluetooth LE.



Topics

- What is Bluetooth Low Energy (Bluetooth LE)
- Roles and Responsibilities
 - Central and Peripherals
 - GATT server and GATT client
 - Services and Characteristics
- Testing for Bluetooth LE support in your Android devices
- Communicating with Bluetooth LE sensors
- Beacon Technologies
 - iBeacon
 - Eddystone
 - Detecting beacons
- Building Location Based Services applications using beacons



Prerequisites

- Attended the **Fundamentals of Android Programming using Android Studio** course

Hardware

- Windows / Mac computer
- *Android devices with Bluetooth LE support (recommended)*

Software

- Android Studio



About Wei-Meng Lee



Wei-Meng Lee is a technologist and founder of Developer Learning Solutions (<http://www.learn2develop.net>), a technology company specializing in hands-on training on the latest mobile technologies. Wei-Meng has many years of training experiences and his training courses place special emphasis on the learning-by-doing approach. His hands-on approach to learning programming makes understanding the subject much easier than reading books, tutorials, and documentations. His name regularly appears in online and print publications such

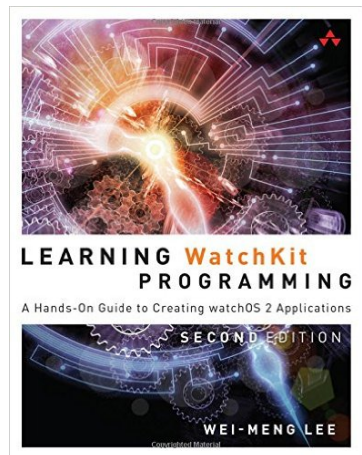
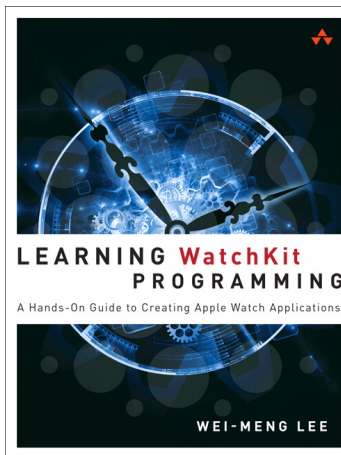
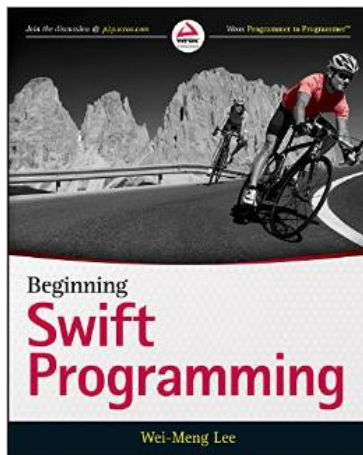
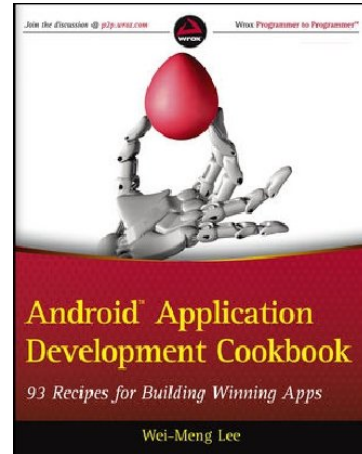
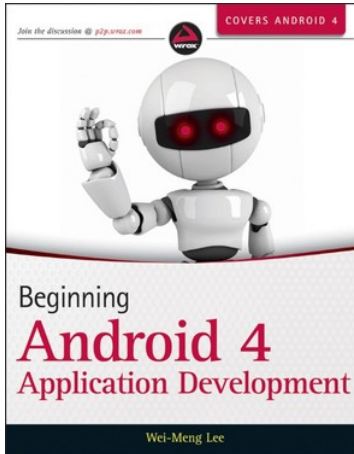
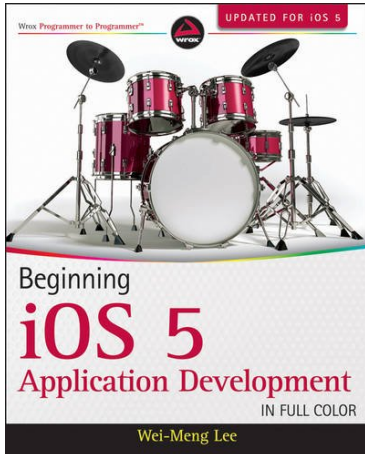
as DevX.com, MobiForge.com, and CoDe Magazine.

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Books by Wei-Meng Lee





Course Application Form

Please email a signed copy to weimenglee@learn2develop.net

Billing Information

Name			
Designation			
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Course Title: _____ Date: _____

Participant Information	Amount
Name: Email:	S\$
Name: Email:	
	Grand Total S\$

Important Note

- Developer Learning Solutions reserves the right to cancel or reschedule the course.
- You can withdraw from the course provided you inform us **one (1) month** in advance before the commencement of the class. There will be no refund after this period and the full course fee will be billed.
- **No-show policy: If a participant did not turn up for the course he signed up for, he will be billed 100% of the course fee. In the event of medical leave, a substitution would be allowed**

I understand that participants have to bring their notebook computer for the course (for iOS related courses, the notebook must be a Mac).

Authorized Signature & Company Stamp

Name & Designation

Date