



# Building Arduino Projects for the Internet of Things: Experiments with Real-World Applications

*Adeel Javed*

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## **Building Arduino Projects for the Internet of Things: Experiments with Real-World Applications**

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This is a book about building Arduino-powered devices for everyday use, and then connecting those devices to the Internet. If you're one of the many who have decided to build your own Arduino-powered devices for IoT applications, you've probably wished you could find a single resource--a guidebook for the eager-to-learn Arduino enthusiast--that teaches logically, methodically, and practically how the Arduino works and what you can build with it.

*Building Arduino Projects for the Internet of Things: Experiments with Real-World Applications* is exactly what you need. Written by a software developer and solution architect who got tired of hunting and gathering various lessons for Arduino development as he taught himself all about the topic, this book gives you an incredibly strong foundation of Arduino-based device development, from which you can go in any direction according to your specific development needs and desires.

Readers are introduced to the building blocks of IoT, and then deploy those principles to by building a variety of useful projects. Projects in the books gradually introduce the reader to key topics such as internet connectivity with Arduino, common IoT protocols, custom web visualization, and Android apps that receive sensor data on-demand and in realtime. IoT device enthusiasts of all ages will want this book by their side when developing Android-based devices.

### What You'll Learn:

- Connect an Arduino device to the Internet
- Creating an Arduino circuit that senses temperature
- Publishing data collected from an Arduino to a server and to an MQTT broker
- Setting up channels in Xively
- Setting up an app in IBM Bluematrix
- Using Node-RED to define complex flows
- Publishing data visualization in a web app
- Reporting motion-sensor data through a mobile app
- Creating a remote control for house lights
- Creating a machine-to-machine communication requiring no human intervention
- Creating a location-aware device

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