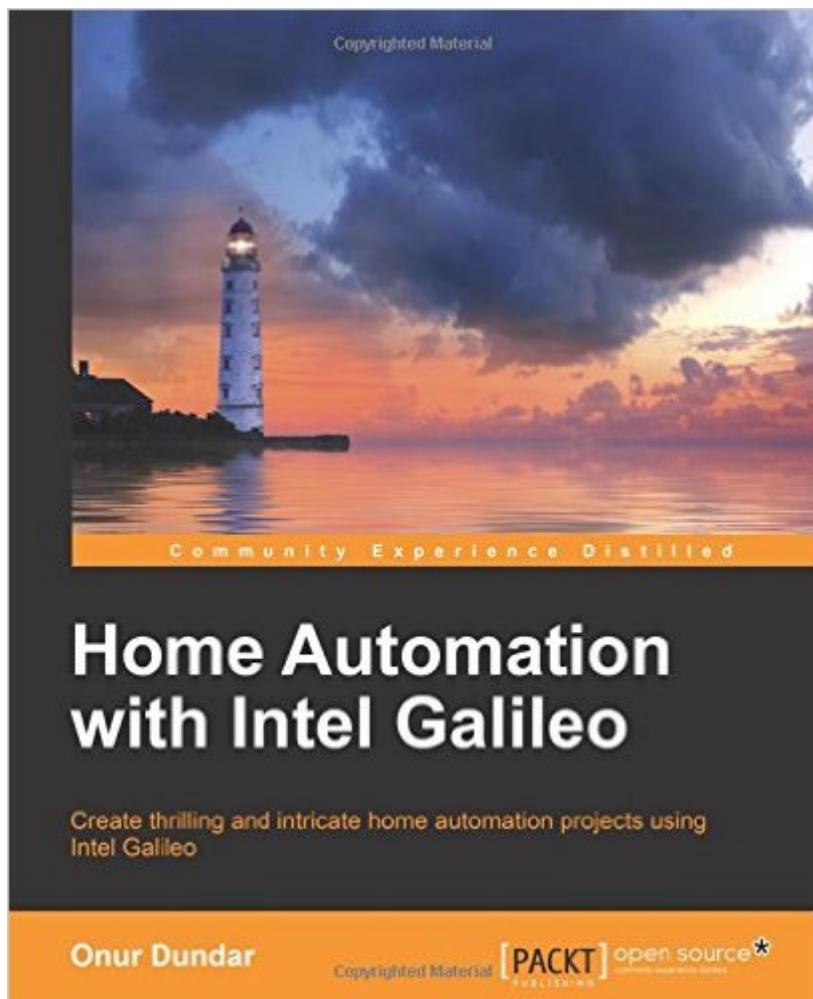


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# Home Automation With Intel Galileo



## Synopsis

Create thrilling and intricate home automation projects using Intel Galileo About This Book Make the most out of Intel Galileo by understanding its fundamentals and architecture Explore sensors and devices to successfully control home functions like lights, security, energy management, and many more Written in a lucid and step-by-step approach explaining varied aspects of home automation Who This Book Is For This book is for anyone who wants to learn Intel Galileo for home automation and cross-platform software development. No knowledge of programming with Intel Galileo is assumed, but knowledge of the C programming language is essential. What You Will Learn Set up a software development environment for cross-platform software programming Employ Yocto Project basics to create custom Linux images for Intel Galileo Development Board Develop applications on the Eclipse IDE and deploy them on the Linux operating system Construct applications with external devices and sensors on Linux and Intel Galileo using standard and third-party Linux libraries Explore home automation concepts, energy management and security, and related protocols and open source projects. Familiarize yourself with inter-process communication by using Linux network sockets and named pipes Design and build applications to serve data with Intel Galileo to turn Intel Galileo into a home gateway or hub with help from Node.js In Detail This book provides you with a rapid introduction to Intel Galileo and home automation. You will start by setting up the Intel Galileo Board and its software development environment and learning cross-platform software programming using C and Linux. It then walks you through the home automation concept and provides insights about existing sensors and devices to use with Intel Galileo and explains how to use them in your own home. You will also create applications for energy management with electrical and environmental sensors and safeguard your homes using monitoring and surveillance concepts. Finally, you will learn to add advanced features to your home automation applications such as web interfaces to control devices, connecting with smartphones, and adding a microphone to add voice control features. All in all, this book is a practical guide to learn about Intel Galileo and experience the joy of building full-fledged projects for home automation.

## Book Information

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## Customer Reviews

"A very nice book to follow up basic home automation projects and develop a complex home gateway on a Linux platforms. All code is working well and easily portable to raspberry pi and other platforms. I recommend the book both people who are into a professional smart home project and DIY projects."

Great book, good content coverage and the best is I managed to run the examples on Raspberry Pi without much effort!

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