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**Deep learning networks
are getting smaller. Much**

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smaller. The Google Assistant team can detect words with a model just 14 kilobytes in size—small enough to run on a microcontroller. With this practical book you'll

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**enter the field of TinyML,
where deep learning and
embedded systems
combine to make
astounding things
possible with tiny devices.
Pete Warden and Daniel**

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**Situnayake explain how
you can train models
small enough to fit into
any environment. Ideal
for software and
hardware developers who
want to build embedded**

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systems using machine learning, this guide walks you through creating a series of TinyML projects, step-by-step. No machine learning or microcontroller

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**experience is necessary.
Build a speech
recognizer, a camera that
detects people, and a
magic wand that responds
to gestures Work with
Arduino and ultra-low-**

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power microcontrollers

**Learn the essentials of
ML and how to train your
own models Train models
to understand audio,
image, and accelerometer
data Explore TensorFlow**

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**Lite for Microcontrollers,
Google's toolkit for
TinyML Debug
applications and provide
safeguards for privacy
and security Optimize
latency, energy usage,**

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**and model and binary size
Provides step-by-step
instructions for building
a variety of LEGO
Mindstorms NXT and
Arduino devices.
Presents an introduction**

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**to the open-source
electronics prototyping
platform.**

**The Intel Galileo board is
the first in a family of
Arduino-certified
development and**

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**prototyping boards based
on Intel architecture.
Microsoft provides
Windows for IoT Program
which we can build and
deploy application on top
of Intel Galileo board**

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using Windows Platform.

**This book helps you
getting started with
Windows for IoT program
and Intel Galileo. The
following is a list of
highlight topics: ***

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**Preparing Development
Environment * Deploying
Windows IoT on Intel
Galileo * Digital I/O *
Analog I/O * Serial
Communication *
Working with SPI and I2C**

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**Intel Galileo and Intel
Galileo Gen 2 API
Features and Arduino
Projects for Linux
Programmers Apress
Getting Started with
BeagleBone**

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**Art and Science in the
Age of Galileo
Building NodeBots with
Johnny-Five, Raspberry
Pi, Arduino, and
BeagleBone
API Features and Arduino**

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**Projects for Linux
Programmers
Quick Boot
Getting Started with
Raspberry Pi**

This book is for anyone who has
ever been curious about using the

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Intel Galileo to create electronics projects. Some programming background is useful, but if you know how to use a personal computer, with the aid of the step-by-step instructions in this book, you can construct complex

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electronics projects that use the Intel Galileo.

Quick Boot is designed to give developers a background in the basic architecture and details of a typical boot sequence. More specifically, this book describes the

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basic initialization sequence that allows developers the freedom to boot an OS without a fully featured system BIOS. Various specifications provide the basics of both the code bases and the standards. This book also provides

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insights into optimization techniques for more advanced developers. With proper background information, the required specifications on hand, and diligence, many developers can create quality boot solutions

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using this text. Pete Dice is Engineering Director of Verifone, where he manages OS Engineering teams in Dublin, Ireland and Riga Latvia. Dice successfully launched Intel(R) Quark(TM), Intel's first generation SoC as well as invented

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the Intel(R) Galileo(TM) development board and developed a freemium SW strategy to scale Intel IoT gateway features across product lines. He is also credited with architecting the "Moon Island" software stack and business model.

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Market: electronics hobbyists and
Tesla societies and websites

Features 76 worksheets to simplify
design The only book available to
cover the Tesla coil in so much
detail

What can you do with the

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Raspberry Pi, a \$35 computer the size of a credit card? All sorts of things! If you're learning how to program, or looking to build new electronic projects, this hands-on guide will show you just how valuable this flexible little platform

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can be. This book takes you step-by-step through many fun and educational possibilities. Take advantage of several preloaded programming languages. Use the Raspberry Pi with Arduino. Create Internet-connected projects. Play

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with multimedia. With Raspberry Pi, you can do all of this and more. Get acquainted with hardware features on the Pi's board Learn enough Linux to move around the operating system Pick up the basics of Python and Scratch—and start

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programming Draw graphics, play sounds, and handle mouse events with the Pygame framework Use the Pi's input and output pins to do some hardware hacking Discover how Arduino and the Raspberry Pi complement each other Integrate

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USB webcams and other
peripherals into your projects
Create your own Pi-based web
server with Python
Interact with the world and rapidly
prototype IoT applications using
Python About This Book Rapidly

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prototype even complex IoT applications with Python and put them to practical use Enhance your IoT skills with the most up-to-date applicability in the field of wearable tech, smart environments, and home automation Interact with

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hardware, sensors, and actuators and control your DIY IoT projects through Python Who This Book Is For The book is ideal for Python developers who want to explore the tools in the Python ecosystem in order to build their own IoT

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applications and work on IoT-related projects. It is also a very useful resource for developers with experience in other programming languages that want to easily prototype IoT applications with the Intel Galileo Gen 2 board. What

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You Will Learn Prototype and develop IoT solutions from scratch with Python as the programming language Develop IoT projects with Intel Galileo Gen 2 board along with Python Work with the different components included in the boards

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using Python and the MRAA library
Interact with sensors, actuators,
and shields Work with UART and
local storage Interact with any
electronic device that supports the
I2C bus Allow mobile devices to
interact with the board Work with

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real-time IoT and cloud services
Understand Big Data and IoT
analytics In Detail Internet of Things
(IoT) is revolutionizing the way
devices/things interact with each
other. And when you have IoT with
Python on your side, you'll be able

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to build interactive objects and design them. This book lets you stay at the forefront of cutting-edge research on IoT. We'll open up the possibilities using tools that enable you to interact with the world, such as Intel Galileo Gen 2, sensors, and

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other hardware. You will learn how to read, write, and convert digital values to generate analog output by programming Pulse Width Modulation (PWM) in Python. You will get familiar with the complex communication system included in

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the board, so you can interact with any shield, actuator, or sensor.

Later on, you will not only see how to work with data received from the sensors, but also perform actions by sending them to a specific shield. You'll be able to connect

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your IoT device to the entire world, by integrating WiFi, Bluetooth, and Internet settings. With everything ready, you will see how to work in real time on your IoT device using the MQTT protocol in python. By the end of the book, you will be

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able to develop IoT prototypes with Python, libraries, and tools. Style and approach This book takes a tutorial-like approach with mission critical chapters. The initial chapters are introductions that set the premise for useful examples

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covered in later chapters.

Beyond BIOS

Controller Area Network

Prototyping With Arduino

Tools and Techniques for

Engineering Wizardry

Expert Android Studio

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Painting the Heavens

Linux-Powered Electronic Projects

With Python and JavaScript

This book starts by teaching you the essentials of the Intel Galileo board, its components, how to wire it, and how to use it safely. The book will teach you how to use and combine simple

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sensors to build more complex connected objects with the help of an Internet connection. You'll also learn how to control and read from your sensors by building a number of interesting projects. Finally, the book will familiarize you with the art of controlling your objects using mobile

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devices. By the end of the book, you'll be able to understand the key concepts of the Internet of Things, and what a "Thing" truly is. This book will make you ready and also more aware of what you can do with a Galileo board, while inspiring you with more ideas to build your own home projects.

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Linux is a powerful open-source operating system that has been around for many years and is widely used for running servers and websites. But most students and Makers encounter it for the first time when they are working on projects with their Raspberry Pi or similar single-board

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computers (SBCs) such as BeagleBone Black or Intel Galileo. Linux for Makers is the first book that explains the Linux operating system specifically for Makers, as opposed to programmers and administrators. By gaining a deeper understanding of Linux, Makers can add another useful

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tool to their kit that will help them build their projects more easily. Written with the Maker in mind, this book will focus mostly on Rasbian running on the Raspberry Pi as it is the most prolific in the ecosystem today. However most of the topics covered will apply broadly to other Linux distributions and will be

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called out when they may differ. Many times users cut and paste from a website tutorial into the Linux command line without understanding what they are actually doing only to be frustrated when they want to modify or tweak something to suit their needs. Also, many Makers shy away from

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using the Raspberry Pi or similar board because they feel Linux is too foreign and they think using a command line will be more difficult than using a GUI. This book aims to overcome those fears and provide a foundation for further learning and exploration. To that end, this book will

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focus on the basic principles that a Maker would need to know as opposed to other resources that go into detail that is not particularly relevant to building projects.

Send and receive messages with the MQTT protocol for your IoT solutions.
About This Book Make your connected

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devices less prone to attackers by understanding practical security mechanisms Dive deep into one of IoT's extremely lightweight machines to enable connectivity protocol with some real-world examples Learn to take advantage of the features included in MQTT for IoT and Machine-

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to-Machine communications with complete real-life examples Who This Book Is For This book is a great resource for developers who want to learn more about the MQTT protocol to apply it to their individual IoT projects. Prior knowledge of working with IoT devices is essential. What

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You Will Learn Understand how
MQTTv3.1 and v3.1.1 works in detail
Install and secure a Mosquitto MQTT
broker by following best practices
Design and develop IoT solutions
combined with mobile and web apps
that use MQTT messages to
communicate Explore the features

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included in MQTT for IoT and Machine-to-Machine communications Publish and receive MQTT messages with Python, Java, Swift, JavaScript, and Node.js Implement the security best practices while setting up the MQTT Mosquitto broker In Detail This step-by-step guide will help you gain a deep

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understanding of the lightweight MQTT protocol. We'll begin with the specific vocabulary of MQTT and its working modes, followed by installing a Mosquitto MQTT broker. Then, you will use best practices to secure the MQTT Mosquitto broker to ensure that only authorized clients are able to publish

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and receive messages. Once you have secured the broker with the appropriate configuration, you will develop a solution that controls a drone with Python. Further on, you will use Python on a Raspberry Pi 3 board to process commands and Python on Intel Boards (Joule, Edison and

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Galileo). You will then connect to the MQTT broker, subscribe to topics, send messages, and receive messages in Python. You will also develop a solution that interacts with sensors in Java by working with MQTT messages. Moving forward, you will work with an asynchronous API with

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callbacks to make the sensors interact with MQTT messages. Following the same process, you will develop an iOS app with Swift 3, build a website that uses WebSockets to connect to the MQTT broker, and control home automation devices with HTML5, JavaScript code, Node.js and MQTT

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messages Style and approach This step-by-step guide describes the MQTT protocol for your IoT projects The bestselling beginner Arduino guide, updated with new projects! Exploring Arduino makes electrical engineering and embedded software accessible. Learn step by step

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everything you need to know about electrical engineering, programming, and human-computer interaction through a series of increasingly complex projects. Arduino guru Jeremy Blum walks you through each build, providing code snippets and schematics that will remain useful for

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expanding Arduino ecosystem, and includes new full-color graphics for easier reference. Servo motors and stepper motors are covered in richer detail, and you'll find more excerpts about technical details behind the topics covered in the book. Wireless connectivity and the Internet-of-Things

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are now more prominently featured in the advanced projects to reflect Arduino's growing capabilities. You'll learn how Arduino compares to its competition, and how to determine which board is right for your project. If you're ready to start creating, this book is your ultimate guide! Get up to date

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on the evolving Arduino hardware, software, and capabilities Build projects that interface with other devices—wirelessly! Learn the basics of electrical engineering and programming Access downloadable materials and source code for every project Whether you're a first-timer just

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starting out in electronics, or a pro looking to mock-up more complex builds, Arduino is a fantastic tool for building a variety of devices. This book offers a comprehensive tour of the hardware itself, plus in-depth introduction to the various peripherals, tools, and techniques used to turn your

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little Arduino device into something useful, artistic, and educational.

Exploring Arduino is your roadmap to adventure—start your journey today!

The number of Android devices running on Intel processors has increased since Intel and Google announced, in late 2011, that they

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would be working together to optimize future versions of Android for Intel Atom processors. Today, Intel processors can be found in Android smartphones and tablets made by some of the top manufacturers of Android devices, such as Samsung, Lenovo, and Asus. The increase in

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Android devices featuring Intel processors has created a demand for Android applications optimized for Intel Architecture: Android Application Development for the Intel® Platform is the perfect introduction for software engineers and mobile app developers. Through well-designed app samples,

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code samples and case studies, the book teaches Android application development based on the Intel platform—including for smartphones, tablets, and embedded devices—covering performance tuning, debugging and optimization. This book is jointly developed for

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individual learning by Intel Software
College and China Shanghai JiaoTong
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Programming the Intel Galileo: Getting
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Six Embedded Projects with Open
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JavaScript Robotics

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*to programming the Intel®
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Written by an experienced
electronics hobbyist,
Programming the Intel® Galileo:
Getting Started with the
Arduino™-Compatible
Development Board shows how to*

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set up your board, configure the software, and quickly start writing sketches. You will discover how to work with the Galileo's inputs and outputs, use libraries, interface with the Web, and control external hardware. From there, you will learn to engineer and

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motors • Process input from temperature and light sensors • Connect to the Internet through Ethernet and WiFi • Share sensor readings and other data via the cloud • Go further and design, build, and test your own projects
While the Arduino is not widely

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considered an industrial-strength solution, it provides, due to its low price and ease of programming, the perfect prototyping platform for all kinds of Controller Area Network (CAN) applications. This book, written by a leading expert on CAN

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technologies, guides the reader through the process of acquiring all necessary hardware and software components, the implementation of the CAN driver, and the implementation of programs (Arduino Sketches) to read, send, process, and display

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data from and to a CAN network. The collection of programming examples cumulates into a full-fledged USB-to-CAN Gateway communicating with a Windows/Linux PC. This book will enable you to achieve CAN functionality literally within only a

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few hours.

Embedded Firmware Solutions is the perfect introduction and daily-use field guide--for the thousands of firmware designers, hardware engineers, architects, managers, and developers--to Intel's new firmware direction (including

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Quark coverage), showing how to integrate Intel® Architecture designs into their plans. Featuring hands-on examples and exercises using Open Source codebases, like Coreboot and EFI Development Kit (tianocore) and Chromebook, this is the first book

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that combines a timely and thorough overview of firmware solutions for the rapidly evolving embedded ecosystem with in-depth coverage of requirements and optimization.

Getting Started with the Intel Galileo gets you up and running

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with this new, x86-powered board that was developed in collaboration between Arduino and Intel. You'll learn how to set it up, connect it to your computer, and begin programming. You'll learn how to build electronics projects around the Galileo, and

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you'll explore the features and power that make it different from all the boards that came before. Developed in collaboration with the Intel Galileo team, and in consultation with members of the Arduino team, this is the definitive introduction to Intel's

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new board for makers.

The Intel Galileo board is the first in a family of Arduino-certified development and prototyping boards based on Intel architecture. Intel provides Intel IoT Developer Kit which you can build and deploy application on

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*top of Intel Galileo board. This book helps you getting started with Intel IoT and Intel Galileo. The following is a list of highlight topics: * Preparing Development Environment * Working with Arduino IDE Software * Accessing Internal Linux OS * Connecting to*

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*Internet Network * Yocto
Embedded Linux-based OS * Intel
Galileo I/O Programming from
Yocto Linux. It covers topics about
GPIO, UART, SPI and I2C *
Working with XBee IEEE 802.15.4
Code samples are be provided as
illustration with written in Python,*

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C and Node.js.

TinyML

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Arduino Computer Vision

Programming

*Getting Started with Windows IoT
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and Construction Guide

Getting Started with Arduino

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Galileo Gen 2: API Features

and Arduino Projects for

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detailed information about

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Intel® Galileo and Intel® Galileo Gen 2 boards for all software developers interested in Arduino and the Linux platform. The book covers the new Arduino APIs and is an introduction for

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developers on natively using Linux. Author Manoel Carlos Ramon is a member of the Intel Galileo development team; in this book he draws on his practical experience in working on the Galileo

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project as he shares the team's findings, problems, fixes, workarounds, and techniques with the open source community. His areas of expertise are wide-ranging, including Linux-

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embedded kernel and device drivers, C/C++, Java, OpenGL, Assembler, Android NDK/SDK/ADK, and 2G/3G/4G modem integration. He has more than 17 years of experience in research and

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development of mobile devices and embedded circuits. His personal blog about programming is BytesThink (www.bytesthink.com). Provides information on

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creating a variety of gadgets
and controllers using
Arduino.

What can you do with the
Raspberry Pi, the affordable
computer the size of a credit
card? All sorts of things! If

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you're learning how to program--or looking to build new electronic projects, this hands-on guide will show you just how valuable this flexible little platform can be. Updated to include coverage

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of the Raspberry Pi Model B+, Getting Started with Raspberry Pi takes you step-by-step through many fun and educational possibilities. Take advantage of several preloaded programming

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languages. Use the Raspberry Pi with Arduino. Create Internet-connected projects. Play with multimedia. With Raspberry Pi, you can do all of this and more. In Getting Started with

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Raspberry Pi, you'll: Get acquainted with hardware features on the Pi's board
Learn enough Linux to move around the operating system
Start programming in Python and Scratch
Draw graphics,

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play sounds, and handle
mouse events with Pygame
Use the Pi's input and output
pins to do some hardware
hacking Discover how
Arduino and the Raspberry Pi
can work together Create

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your own Pi-based web
server with Python Work with
the Raspberry Pi Camera
Module and USB webcams
This book provides an
overview of modern boot
firmware, including the

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Unified Extensible Firmware Interface (UEFI) and its associated EFI Developer Kit II (EDKII) firmware. The authors have each made significant contributions to developments in these

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areas. The reader will learn to use the latest developments in UEFI on modern hardware, including open source firmware and open hardware designs. The book begins with an

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exploration of interfaces exposed to higher-level software and operating systems, and commences to the left of the boot timeline, describing the flow of typical systems, beginning with the

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machine restart event.

Software engineers working with UEFI will benefit greatly from this book, while specific sections of the book address topics relevant for a general audience: system architects,

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pre-operating-system
application developers,
operating system vendors
(loader, kernel), independent
hardware vendors (such as
for plug-in adapters), and
developers of end-user

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applications. As a secondary audience, project technical leaders or managers may be interested in this book to get a feel for what their engineers are doing. The reader will find: An overview

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of UEFI and underlying
Platform Initialization (PI)
specifications How to create
UEFI applications and drivers
Workflow to design the
firmware solution for a
modern platform Advanced

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for the Internet of Things
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Python, Scratch, and Linux
Electronic Projects with the
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Intel Edison Projects
Machine Learning with
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Microcontrollers
Take your Android

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programming skills to the next level by unleashing the potential of Android Studio Expert Android Studio bridges the gap between your Android programming skills with the provided tools including

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how to use the tools and techniques to unleash your true potential as a developer. Discover the basics of working in Android Studio and Gradle, as well as the application architecture of the latest

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Android platform Understand
Native Development Kit and its
integration with Android
Studio Complete your
development lifecycle with
automated tests, dependency
management, continuous

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integration and release management Writing your own Gradle plugins to customize build cycle Writing your own plugins for Android Studio to help your development tasks. Expert Android Studio is a tool

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for expert and experienced developers who want to learn how to make use of the tools while creating Android applications for use on mobile devices.

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Galileo Gen 2: API Features and Arduino Projects for Linux Programmers provides detailed information about Intel® Galileo and Intel® Galileo Gen 2 boards for all software developers interested

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in Arduino and the Linux platform. The book covers the new Arduino APIs and is an introduction for developers on natively using Linux. Author Manoel Carlos Ramon is a member of the Intel Galileo

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development team; in this book he draws on his practical experience in working on the Galileo project as he shares the team's findings, problems, fixes, workarounds, and techniques with the open

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source community. His areas of expertise are wide-ranging, including Linux-embedded kernel and device drivers, C/C++, Java, OpenGL, Assembler, Android NDK/SDK/ADK, and 2G/3G/4G

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modem integration. He has more than 17 years of experience in research and development of mobile devices and embedded circuits. His personal blog about programming is BytesThink

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(www.bytesthink.com).

JavaScript Robotics is on the rise. Rick Waldron, the lead author of this book and creator of the Johnny-Five platform, is at the forefront of this movement. Johnny-Five is an

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open source JavaScript
Arduino programming
framework for robotics. This
book brings together fifteen
innovative programmers, each
creating a unique Johnny-Five
robot step-by-step, and

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offering tips and tricks along the way. Experience with JavaScript is a prerequisite. This book is for anyone who wants to learn Intel Galileo for home automation and cross-platform software

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development. No knowledge of programming with Intel Galileo is assumed, but knowledge of the C programming language is essential.

Learn to easily build gadgets,

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gizmos, robots, and more
using Arduino Written by
Arduino expert Jeremy Blum,
this unique book uses the
popular Arduino
microcontroller platform as an
instrument to teach you about

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topics in electrical engineering, programming, and human-computer interaction. Whether you're a budding hobbyist or an engineer, you'll benefit from the perfectly paced lessons

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that walk you through useful, artistic, and educational exercises that gradually get more advanced. In addition to specific projects, the book shares best practices in programming and design that

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you can apply to your own projects. Code snippets and schematics will serve as a useful reference for future projects even after you've mastered all the topics in the book. Includes a number of

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projects that utilize different capabilities of the Arduino, while interfacing with external hardware Features chapters that build upon each other, tying in concepts from previous chapters to illustrate

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new ones Includes aspects that are accompanied by video tutorials and other multimedia content Covers electrical engineering and programming concepts, interfacing with the world through analog and

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digital sensors, communicating with a computer and other devices, and internet connectivity Explains how to combine smaller topics into more complex projects Shares downloadable materials and

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source code for everything covered in the book Projects compatible with many official Arduino boards including Arduino Uno; Arduino Leonardo; Arduino Mega 2560; Arduino Due; Arduino Nano;

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Arduino Mega ADK; LilyPad
Arduino and may work with
Arduino-compatible boards
such as Freeduino and new
third party certified boards
such as the Intel Galileo
Exploring Arduino takes you

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Exploring Arduino

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Developing with the Unified
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Third Edition

Projects for Extending
MINDSTORMS NXT with Open-

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source Electronics

Intel Galileo Gen 2 and Intel Edison for Beginners: A Hands-on Introduction provides a projects-based introduction to programming for the Intel Galileo Gen 2 and Intel Edison boards, for non-expert users and developers interested in Arduino and the Linux platform. The

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book's theory-into-practice approach features learning resources excerpted and refined from the book Intel Galileo and Intel Galileo Gen 2: API Features and Arduino Projects for Linux Programmers, which is geared to more-advanced-level audiences. The book provides an introduction to the Galileo

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and Edison boards, the APIs, the use of the Arduino IDE, the wiring language and basic networking followed by some application projects to pull it all together. Author Manoel Carlos Ramon is a member of the Intel Galileo development team; his text draw on his practical experience in working on the Galileo

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project as he shares the team's findings, problems, fixes, workarounds and techniques with the open source community. His areas of expertise are wide-ranging, including Linux embedded kernel and device drivers, C/C++, Java, OpenGL, assembler, Android NDK/SDK/ADK and 2G/3G/4G modem

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integration. He has more than 17 years of experience in research and development of mobile devices and embedded circuits. His personal blog about programming is www.bytesthink.com. What you'll learn • How to develop and debug Intel's Galileo and Intel Galileo Gen 2 sketches using the Arduino IDE, native Linux

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applications and hacking • Integration of OpenCV and V4L2 in C/C++/Python to capture picture and videos, to detect faces, eyes and emotional state using Fisherfaces models. • Tweeting with REST API 1.1 and OAuth authentication • Controlling a robot face expressions and robot arm using a gripper based in

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embedded Linux and Arduino.*

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skills of creating enticing projects with Intel Edison. Who This Book Is For If you are a hobbyist, robot engineer, IoT enthusiast, programmer, or developer who wants to create autonomous projects with Intel Edison, then this book is for you. Prior programming knowledge would be beneficial. What You Will

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*Learn Program your device using the
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Node.js Interface different sensors with
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Android, and WPF Perform face
detection using Intel Edison Develop a
high-speed line follower robot Control a*

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kickstart development and rapid prototyping using Intel Edison. It will start by introducing readers to the Intel Edison board and explaining how to get started with it. You will learn how to build a mini weather station, which will help you to acquire temperature and smoke level and push it to the IoT

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platform. Then you will see how to build a home automation device and control your appliances using an Android app. Furthermore, we will build a security system using a webcam to detect faces and perform voice recognition. Toward the end, the book will demonstrate how you can build two robots, which will be

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based on different line sensing sensors and can be controlled by a PC. The book will guide the readers through each and every step of execution of a project, using Intel Edison. Style and approach A project-based guide that will take the readers through various domains of projects like robotics, IoT and so on.

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Design and develop real-world computer vision applications with the powerful combination of OpenCV and Arduino
About This Book- Load and run the applications in Arduino to develop intelligent systems- Design and implement detection, classification, and recognition algorithms for computer

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vision applications- Explore the best practices of computer vision development including state of the art algorithms and hands-on example projects Who This Book Is For If you are a consumer and hobbyist who has familiarity with the basics of Arduino and wish to learn computer vision programming with

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*Arduino to create intelligent systems,
then this book is for you. No knowledge
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Understand the design blocks and the
generic architecture of computer vision
systems by learning an efficient approach
to modelling- Build up your skill set of*

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*computer vision system design using
OpenCV by learning fundamentals,
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and recognition for any specific problem-
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connect it to the OpenCV environment in a platform-independent way- Discover how to use Arduino to elegantly interact with real life via physical actions- Solidify everything you've learnt by designing and building a computer vision-enabled practical robot from scratchIn detailsMost technologies are developed

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with an inspiration of human capabilities. Most of the time, the hardest to implement capability is vision. Development of highly capable computer vision applications in an easy way requires a generic approach. In this approach, Arduino is a perfect tool for interaction with the real world.

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Moreover, the combination of OpenCV and Arduino boosts the level and quality of practical computer vision applications. Computer vision is the next level of sensing the environment. The purpose of this book is to teach you how to develop Arduino-supported computer vision systems that can interact with real

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life by seeing it. This book will combine the powers of Arduino and computer vision in a generalized, well-defined, and applicable way. The practices and approaches in the book can be used for any related problems and on any platforms. At the end of the book, you should be able to solve any types of real

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life vision problems with all its components by using the presented approach. Each component will extend your vision with the best practices on the topic. In each chapter, you will find interesting real life practical application examples about the topics in the chapter. To make it grounded, we will build a

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vision-enabled robot step by step towards the end of the book. You will observe that, even though the contexts of the problems are very different, the approaches to solve them are the same and very easy!
Style and approach
This book is a step-by-step guide that explains each topic sequentially by using best

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practices and useful tips to build computer-vision applications with OpenCV and Arduino. All the information in the book is combined in a real life all-in-one example application. If you are a hobbyist who wants to develop projects based on Arduino as the main microcontroller platform or an

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engineer interested in finding out what the Arduino platform offers, then this book is ideal for you. Some prior knowledge of the C programming language is required.

Arduino is an open-source platform that makes DIY electronics projects easier than ever. Gone are the days when you

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had to learn electronics theory and arcane programming languages before you could even get an LED to blink. Now, with this new edition of the bestselling Arduino: A Quick-Start Guide, readers with no electronics experience can create their first gadgets quickly. This book is up-to-date for the new

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Arduino Zero board, with step-by-step instructions for building a universal remote, a motion-sensing game controller, and many other fun, useful projects. This Quick-Start Guide is packed with fun, useful devices to create, with step-by-step instructions and photos throughout. You'll learn how to connect

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your Arduino to the Internet and program both client and server applications. You'll build projects such as your own motion-sensing game controller with a three-axis accelerometer, create a universal remote with an Arduino and a few cheap parts, build your own burglar alarm that emails you whenever

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someone's moving in your living room, build binary dice, and learn how to solder. In one of several new projects in this edition, you'll create your own video game console that you can connect to your TV set. This book is completely updated for the new Arduino Zero board and the latest advances in supporting

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software and tools for the Arduino.

Sidebars throughout the book point you to exciting real-world projects using the Arduino, exercises extend your skills, and "What If It Doesn't Work" sections help you troubleshoot common problems.

With this book, beginners can quickly join the worldwide community of

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hobbyists and professionals who use the Arduino to prototype and develop fun, useful inventions. What You Need: This is the full list of all parts you'd need for all projects in the book; some of these are provided as part of various kits that are available on the web, or you can purchase individually. Sources include

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*adafruit.com, makershed.com,
radioshack.com, sparkfun.com, and
mouser.com. Please note we do not
support or endorse any of these vendors,
but we list them here as a convenience for
you. Arduino Zero (or Uno or
Duemilanove or Diecimila) board USB
cable Half-size breadboard Pack of LEDs*

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(at least 3, 10 or more is a good idea)

Pack of 100 ohm, 10k ohm, and 1k ohm

resistors Four pushbuttons Breadboard

jumper wire / connector wire Parallax

Ping))) sensor Passive Infrared sensor

An infrared LED A 5V servo motor

Analog Devices TMP36 temperature

sensor ADXL335 accelerometer breakout

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board 6 pin 0.1" standard header (might be included with the ADXL335) Nintendo Nunchuk Controller Arduino Ethernet shield Arduino Proto shield and a tiny breadboard (optional but recommended) Piezo speaker/buzzer (optional) Tilt sensor (optional) A 25-30 Watts soldering iron with a tip (preferably 1/16") A

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*soldering stand and a sponge A standard
60/40 solder (rosin-core) spool for
electronics work*

*Understanding the Operating System
That Runs Raspberry Pi and Other
Maker SBCs*

*Internet of Things with Python
Arduino: A Quick-Start Guide*

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Getting Started with Intel Galileo

*MQTT Essentials - A Lightweight IoT
Protocol*

A Hands-on Introduction

Many people think of Linux as
a computer operating system,
running on users' desktops

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and powering servers. But Linux can also be found inside many consumer electronics devices. Whether they're the brains of a cell phone, cable box, or exercise bike, embedded Linux systems blur

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the distinction between computer and device. Many makers love microcontroller platforms such as Arduino, but as the complexity increases in their projects, they need more power for

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applications, such as computer vision. The BeagleBone is an embedded Linux board for makers. It's got built-in networking, many inputs and outputs, and a fast processor to handle

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demanding tasks. This book introduces you to both the original BeagleBone and the new BeagleBone Black and gets you started with projects that take advantage of the board's processing power and

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its ability to interface with the outside world.

The remarkable astronomical discoveries made by Galileo with the new telescope in 1609-10 led to his famous disputes with philosophers

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and religious authorities, most of whom found their doctrines threatened by his evidence for Copernicus's heliocentric universe. In this book, Eileen Reeves brings an art historical perspective to this

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story as she explores the impact of Galileo's heavenly observations on painters of the early seventeenth century. Many seventeenth-century painters turned to astronomical pastimes and to

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the depiction of new discoveries in their work, yet some of these findings imposed controversial changes in their use of religious iconography. For example, Galileo's discovery

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of the moon's rough topography and the reasons behind its secondary light meant rethinking the imagery surrounding the Virgin Mary's Immaculate Conception, which had long been

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represented in paintings by the appearance of a smooth, incandescent moon. By examining a group of paintings by early modern artists all interested in Galileo's evidence for a

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Copernican system, Reeves not only traces the influence of science on painting in terms of optics and content, but also reveals the painters in a conflict between artistic depiction and dogmatic

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representation. Reeves offers a close analysis of seven works by Lodovico Cigoli, Peter Paul Rubens, Francisco Pacheco, and Diego Velázquez. She places these artists at the center of the

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astronomical debate, showing that both before and after the invention of the telescope, the proper evaluation of phenomena such as moon spots and the aurora borealis was commonly considered the

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province of the painter.

Because these scientific hypotheses were complicated by their connection to Catholic doctrine, Reeves examines how the relationship between science

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and art, and their mutual production of knowledge and authority, must themselves be seen in a broader context of theological and political struggle.

Over 50 recipes that will help

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you use the Intel Galileo board to build exciting network-connected projects About This Book Create networking applications using the Intel Galileo board Control your web-based projects in

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real time from anywhere in the world Connect to the Temboo web service to interact with a huge range of APIs Who This Book Is For If you have already worked on ARM boards like Arduino, but

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now want to learn Intel Galileo, then this book is for you. Knowledge of C programming language is required. What You Will Learn Set up your Galileo board for the Internet of

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Things Connect external sensors to the Intel Galileo Create and run a web server on the Galileo board Control hardware devices from the Galileo Host web-based applications on the Intel

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Galileo Monitor data from the cloud using the Galileo Build a complete home automation hub using the Galileo board In Detail Arduino is an electronic prototyping platform used by millions of

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people around the world. Intel Galileo is fully Arduino compatible; hence it combines the high performance of Intel with the simplicity of Arduino Software Development Environment. This makes it

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the ideal platform to build exciting projects, especially in the field of web-based connected applications and the Internet of Things. The book features several recipes all based on the Intel Galileo

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board, and that exploit the powerful features of the board. Each chapter explores a given field using the Galileo board. The book is mainly divided in three parts. The first part is all about learning

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the basics of the Intel Galileo board, but it uses some of the powerful features of the board such as connecting external sensors and complex hardware devices, compared with more basic Arduino

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boards. Then, the book dives into the topics related to networking and the Internet of Things. You will learn how to run a web server on the board and log data using a cloud-based service. Finally,

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the book ends with a chapter that aims to build a complete home automation hub using the Galileo board. This chapter uses everything that was learned in the book to make a home automation

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system using the Galileo board and Arduino. Style and approach This book contains exciting recipes that will help you create projects using the Intel Galileo platform to build systems in various domains

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like local networking applications, the Internet of Things, and home automation. Each recipe is explained in a step-by-step fashion, always starting with the assembly of the hardware, followed by

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basics tests of all hardware components. At the end, an exciting project is built using the knowledge acquired in the rest of the book.

The Intel Galileo board was designed to add the power of

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an Intel processor to the simplicity of the Arduino platform. Intel Galileo gives you the freedom to create a wide range of DIY projects. Intel Galileo Blueprints will be a detailed guide that covers

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several projects based on the Intel Galileo board, exploiting the full potential of the board. You will first go through how to set up the development environment for the Galileo board. Next, you will connect

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different kinds of sensors to the Galileo board, and learn how to use the SD card reader of the board. You will then connect actuators to the Galileo board, like a relay and a servomotor, and write

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simple software to control these components. Later, you will access the Galileo board remotely in order to monitor the measurements done by the board and send the measured data to a Twitter

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feed at regular intervals.

Finally, you will move on to more advanced topics, such as building a complete home automation system, building a mobile robot controlled by the Intel Galileo board and

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computer vision applications
such as face recognition.

An “intriguing and accessible”

(Publishers Weekly)

interpretation of the life of

Galileo Galilei, one of

history’s greatest and most

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fascinating scientists, that sheds new light on his discoveries and how he was challenged by science deniers. “ We really need this story now, because we ’ re living through the next

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chapter of science denial ”
(Bill McKibben). Galileo ’ s
story may be more relevant
today than ever before. At
present, we face enormous
crises—such as minimizing the
dangers of climate

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change—because the science behind these threats is erroneously questioned or ignored. Galileo encountered this problem 400 years ago. His discoveries, based on careful observations and

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ingenious experiments,
contradicted conventional
wisdom and the teachings of
the church at the time.
Consequently, in a blatant
assault on freedom of
thought, his books were

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forbidden by church authorities. Astrophysicist and bestselling author Mario Livio draws on his own scientific expertise and uses his “gifts as a great storyteller” (The Washington

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Post) to provide a “ refreshing perspective ” (Booklist) into how Galileo reached his bold new conclusions about the cosmos and the laws of nature. A freethinker who followed the evidence

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wherever it led him, Galileo was one of the most significant figures behind the scientific revolution. He believed that every educated person should know science as well as literature, and

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insisted on reaching the widest audience possible, publishing his books in Italian rather than Latin. Galileo was put on trial with his life in the balance for refusing to renounce his scientific

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convictions. He remains a hero and inspiration to scientists and all of those who respect science—which, as Livio reminds us in this “ admirably clear and concise ” (The Times, London) book,

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remains threatened everyday.

A Guide for Embedded

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