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Arduino Cookbook

Recipes to Begin, Expand, and Enhance
Your Projects



Michael Margolis,
Brian Jepson
& Nicholas Robert Weldin

3rd Edition
Covers Arduino 1.8

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Arduino Cookbook Michael Margolis, 2011-12-12 Presents an introduction to the open source electronics prototyping platform

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Getting to Know Arduino Heather Moore

Niver,2014-07-15 It has been said that good things come in small packages Such is the case with Arduino Using the Arduino programming language users operate microcontrollers which are essentially mini computers that trigger physical systems such as lights and motors This book introduces readers to one of the most popular programming platforms taking computing beyond the computer The text covers the particulars of Arduino s hardware and software its capabilities pros and cons of the platform and examples of the creativity its use engenders

Make an Arduino-Controlled Robot Michael

Margolis,2012-10-16 Provides instructions on how to build robots that sense and interact with their environment using an Arduino microcontroller and software creation environment to make a robot that can roam around sense its environment and perform various tasks

Architecting IoT Solutions on Azure Blaize Stewart,2024-01-09

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Technology Dr.M.Vijayalakshmi,Dr.M.Sri Raghavendra, **Integrated Approaches to Systems Engineering, Intelligent Technology, and Innovation in Space Exploration** V. I. Mayorova,A. I. Komkin,2026-02-19 This book focuses on space robotics planetary exploration systems and propulsion technology offering in depth insights into the engineering innovations that are reshaping modern space missions With content drawn from the XLVI and XLVII Academic Space Conferences this book addresses both theoretical and applied challenges in autonomous systems and advanced propulsion technology Organized into two parts the chapters explore the design and deployment of robotic rovers autonomous systems for harsh planetary environments novel control algorithms and cutting edge propulsion systems In particular the contributors highlight next generation propulsion systems including plasma engines ion thrusters and hybrid configurations alongside state of the art robotic systems and autonomous mobility solutions for planetary exploration Presenting experimental results simulation studies and systems integration approaches this book serves as a reference for engineers robotics specialists and mission planners

The 2nd EAI International Conference on Automation and Control in Theory and Practice

Michal Balog,Angelina Iakovets,Stella Hrehová,Khrystyna Berladir,2024-08-20 This book presents the proceedings of the EAI International Conference on Automation and Control in Theory and Practice ARTEP 2024 held in Orechov Pot Slovakia February 7 9 2024 The aim of the conference was to meet the experts in the field of control industrial automation and ICT in the industry from universities colleges and practice The conference aims to draw attention to modern trends in the field to enable experts pedagogues and scientific researchers to present the results achieved in their work to exchange experiences and establish working contacts between meeting participants The ARTEP proceedings includes papers on automation and control and their integration of technologies such as Industry 4.0 robotics and IoT ARTEP is primarily a conference for scientists and practitioners who develop and study automation management and technologies

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Scherz,Simon Monk,2013-01-31 The revised corrected and up to date reboot of a comprehensive classic **The LEGO Arduino Cookbook** Grady Koch,2020-10-28 Push into new fields of technology using LEGO and Arduino with the projects in this Cookbook MINDSTORMS EV3 inventions don t have to be confined to LEGO factory made sensors Incorporate a wide range of sensors displays LED arrays actuators and even a smartphone into your creations Add amazing capabilities to your LEGOs by building things such as a metal detector long range lidar audio spectrum analyzer weather station and a smartphone Step by step instructions bring these new devices to life You ll work with the reliable and inexpensive Arduino UNO to take your projects even further and make them truly smart Learn to set up and program your Arduino UNO Then learn data communications protocols I2C SPI and PWM to link sensors to the Arduino A variety of data communications techniques are also demonstrated on passing data between the Arduino and the MINDSTORMS EV3 Intelligent Brick

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