Books about Home and Classroom Electronics Tinkering, Hacking, Programming, and having fun with Raspberry Pi, Arduino, Intel Edison, Intel Galileo, and the like

Collection of References edited by Stanislav Sýkora
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Green-color titles indicate educational texts.

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Many of the books are available from Amazon. Entering Amazon from here helps this site at no cost to you.

Advance notices (years ≥ 2015). At page bottom, Related Works, HARDWARE, and LINKS:

18. McLaughlin Brian,


41. Banzi Massimo, Shiloh Michael,


66. Reichel Andreas J.,
**Building a BeagleBone Black Super Cluster.**

67. Richardson Matt,
**Getting Started with Intel Galileo.**

68. Richardson Matt,

69. Rush Christopher,
**30 BeagleBone Black Projects for the Evil Genius,**

70. Schwartz Marco,
**Arduino Home Automation Projects,**

71. Schwartz Marco,
**Home Automation with the Raspberry Pi,**

72. Smith Bruce,
**Raspberry Pi Assembly Language, RISC OS Beginners:**

73. Smith Bruce,
**Raspberry Pi Insider Guide,**

74. Upton Eben, Halfacree Gareth,
**Raspberry Pi User Guide,**

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**Year 2013**

75. ARRL,
**Ham Radio for Arduino and Picaxe,**

76. Bell Charles,
**Beginning Sensor Networks with Arduino and Raspberry Pi,**

77. Blum Jeremy,
**Exploring Arduino: Tools and Techniques for Engineering Wizardry,**

78. Boxall John,
**Arduino Workshop: A Hands-On Introduction with 65 Projects,**

79. Brad Kendall,
**Getting Started with Arduino: A Beginners’s Guide**

80. Cawley Christian,

81. Craft Brock,
**Arduino Projects for Dummies,**

82. CTech,
**Arduino: A Complete Step by Step Guide,**

83. Golden Rick,
**Raspberry Pi Networking Cookbook,**

84. Johnson Kevin,
**Getting Started with the Raspberry Pi**

85. Kelly James F., Timmis Harold,
**Arduino Adventures: Escape from Gemini Station,**

86. Kurniawan Agus,
**Getting Started with Matlab Simulink and Arduino,**

87. Lewis John,
**Raspberry Pi: User Guide,**

88. Martinez Sylvia Libow, Stager Gary S.,
**Invent to Learn: Making, Tinkering, and Engineering in the Classroom,**

89. Richardson Matt,
**Getting Started with BeagleBone: Linux-Powered Electronic Projects with Python and JavaScript,**
<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Publisher</th>
<th>Year</th>
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<tr>
<td>Arduino for Dummies</td>
<td>Nussey John</td>
<td>For Dummies</td>
<td>2013</td>
<td>978-111846379</td>
<td>Paperback, Kindle</td>
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<td>Programming Arduino: Getting Started with Sketches</td>
<td>Robinson Andrew, Cook Mike</td>
<td>Tab Books</td>
<td>2013</td>
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<td>Practical Electronics for Inventors</td>
<td>Scherz Paul, Monk Simon</td>
<td>TAB Books</td>
<td>2013</td>
<td>978-0071775439</td>
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<td>Raspberry Pi RISC OS System Programming Revealed</td>
<td>Smith Bruce</td>
<td>BSB</td>
<td>2013</td>
<td>978-0992391614</td>
<td>Paperback, Kindle</td>
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<td>Raspberry Pi Hacks: Tips &amp; Tools for Making Things with the Inexpensive Linux Computer</td>
<td>Suehle Ruth, Callaway Tom</td>
<td>O'Reilly Media</td>
<td>2013</td>
<td>978-1449362348</td>
<td>Paperback, Kindle</td>
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<td>Atmospheric Monitoring with Arduino: Building Simple Devices to Collect Data About the Environment</td>
<td>Di Justo Patrick, Gertz Emily</td>
<td>Maker Media</td>
<td>2012</td>
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<td>Building Internet of Things with the Arduino, Volume 1</td>
<td>Doukas Charalampos</td>
<td>CreateSpace</td>
<td>2014</td>
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<td>Paperback, Kindle</td>
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<td>Getting Started with Netduino</td>
<td>Walker Chris</td>
<td>Maker Media</td>
<td>2012</td>
<td>978-1449302450</td>
<td>Paperback, Kindle</td>
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<tr>
<td>Arduino Bots and Gadgets: Six Embedded Projects with Open Source Hardware and Software</td>
<td>Karvinen Tero, Karvinen Kimmo</td>
<td>Maker Media</td>
<td>2014</td>
<td>978-1449389710</td>
<td>Paperback, Kindle</td>
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<td>Arduino Cookbook</td>
<td>Margolis Michael</td>
<td>O'Reilly Media</td>
<td>2011</td>
<td>978-1449313876</td>
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<td>Arduino for Dummies</td>
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Year 2010

114. Monk Simon,
30 Arduino Projects for the Evil Genius,

Year 2009

115. McRoberts M,
Arduino Starter Kit Manual,
Earthshine Design, 2015. Online >>. FREE.

Related works

1. Bakos Jason D.,
Embedded Systems: ARM Programming and Optimization,

2. Platt Charles,
MAKE: More Electronics: Journey Deep into the World of Logic Chips, Amplifiers, Sensors, and Randomicity,

3. Ross Dickson, Lowe Doug,
Electronics All-in-One For Dummies,

4. Scherz Paul, Monk Simon,
Practical Electronics for Inventors,

5. Boysen Earl, Kybett Harry,
Complete Electronics Self-Teaching Guide with Projects,

6. Jepson Brian, Moskowitz Tyler, Hayes Gregory,
Learn to Solder: Tools and Techniques for Assembling Electronics,

7. Essick John,
Hands-On Introduction to LabVIEW for Scientists and Engineers,

8. Platt Charles,
Make: Electronics, Learning by Discovery,

9. Shamieh Cathleen, McComb Gordon,
Electronics For Dummies,

HARDWARE for generic and advanced TINKERING

1. Arduino Starter Kit (by Arduino, $88).
3. Arduino Uno Rev3 Starter Kit (by Vilros, $55).
5. Arduino ATmega2560-16AU board for Arduino (by Gikfun, $25).
9. PcDuino V3 1GB ARM Cortex A7 Dual-Core, compatible with Arduino start kit (by pcDuino, $79).
10. Raspberry Pi 2 Model B (1 GB) Starter Kit (by Vilros, $70).
11. Raspberry Pi 2 (1 GB) Starter Kit (by CanaKit, $85).
12. Raspberry Pi 2 Model B Project Board - 1GB RAM - 900 MHz Quad-Core CPU (by Raspberry Pi, $42).
13. Banana Pi Dual Core Raspberry Pi-like development board with ARM Cortex-A7 (by Ewell, $43).
14. Banana Pi Pro Dual Core Mini PC with ARM Cortex-A7 (by Lemaker, $47).
15. Intel Galileo Gen 2 Board (by Intel, $104).
16. Intel Edison Breakout Board Kit (by Intel, $80).
17. Intel Edison Kit for Arduino (by Intel, $112).
20. BeagleBone Black Devkit (by Beagleboard, $55).

**SENSORS, TRANSDUCERS, ACTUATORS, ACCESSORIES**

Note: most of the sensors are on breakout boards compatible with, or adaptable to, any tinkering hardware. Even when specified for Raspberry Pi or for Arduino, they can not be used across the whole range.

1. **Arduino compatible 37 sensor modules kit** (by Shanhai, $26).
2. **Accelerometer + Gyroscope**, 3 axis (by Kootek, $6).
3. **ADC**: 4x 16bit0.860 KSPS (by Adafruit, $15).
4. **ADC/DAC Expansion shield** for Raspberry Pi, ADCs: 8x24 bit/30 KSPS; DACs: 2x16bit30MHz (by WaveShare, $37).
5. **Bluetooth Wireless Transceiver** for Arduino, Raspberry Pi, ... (by Kedsum, $10).
6. **Bluetooth Wireless Transceiver** for Arduino, Raspberry Pi, and more (by Jtek, $9).
7. **Bluetooth USB Adapter** for Raspberry Pi, and more (by Adafruit, $9).
8. **Camera Module** for Arduino (by Yosoo, $10).
9. **Camera Board Module** Raspberry Pi 5 MP (by Raspberry Pi, $27).
10. **Camera:** Smart Vision - Object Tracking for Arduino, Raspberry Pi, BeagleBone Black (by Charmed Labs and CMU, $69). See also
11. **Distance sensor**, ultrasonic, 2pc, for Arduino (by SunFounder, $9).
12. **Distance sensor**, ultrasonic, 2pc, for Arduino (by D1Ymali, $5).
13. **Ethernet Shield SODIAL** for Arduino Uno (by Toogoo, $7).
16. **GPS Breakout Board** for Raspberry Pi, Arduino, ... (by Adafruit, $42).
17. **GPS Antenna** with active aerial connector cable (by Neewer, $10).
18. **Jumper wires for breadboards and connectors**, 120 pc, 3 types (by Kalevel, $10).
19. **Jumper wires for breadboards**, 100 pc to 500 pc (Wosang, 100 pc $5).
20. **Jumper wires for breadboards**, 140 pc (by Cixi Wanjie Electronic, $7).
21. **Keyboard**, mini, wireless, remote, touchpad, for Raspberry Pi etc (by PazzPort, $15).
22. **Kit:** 37 sensors for Arduino, with extension prototyping board (by SunFounder, $78).
23. **Kit:** 37 sensors for Raspberry Pi, with extension prototyping board (by SunFounder, $79).
24. **LED 8 colors**, 5mm, 80 pieces (by Microbrity, $4).
25. **Light sensor**, photoresistive, Arduino compatible (by Phantom YoYo, $8).
26. **Light sensor**, phototransistor, Arduino compatible (by Phantom YoYo, $7).
27. **Light sensor**, photoresistive, Arduino compatible (by RioRand, $8).
28. **Light sensor**, photodiode, calibrated, Arduino compatible (by Sunkee, $10).
29. **Magnetic field sensor**, magnetoresistive compass, 3 axis, max 800 uT (by Jtek, $6).
30. **Magnetic field switches**, A3144 Hall effect, 3 pins, unipolar (by Amico, 10pcs for $6).
31. **Memory Cards** 16/32/64/128 GB, Micro SDHC, 48 MBs (by SanDisk, $9/26/28/76).
32. **Memory Cards** 8/16/32/4/128/200 GB, Micro SDXC (Ultra), 48 MBs (by SanDisk, $8/8/12/22/50/109).
33. **Motion sensor for Arduino or Raspberry Pi** (by Adafruit, $14).
34. **Pressure / Force sensor**, resistive (by Zhangminivi, $24).
35. **Relays**: 1-channel 5V/20mA drivers, AC250V/10A or DC30V/10A output universal (by Toloako, $4).
36. **Relays**: 2-channels 5V/20mA drivers, AC250V/10A or DC30V/10A outputs universal (by Kootek, $6).
37. **Relays**: 4-channels 5V/20mA drivers, AC250V/10A or DC30V/10A outputs universal (by SainSmart, $8).
38. **Relays**: 8-channels 5V/20mA drivers, AC250V/10A or DC30V/10A outputs universal (by Jtek, $9).
39. **Relays**: 16-channels 5V/20mA drivers, AC250V/10A or DC30V/10A outputs universal (by SainSmart, $13).
40. **Soil moisture sensor**, high sensitivity, Arduino compatible (by Phantom YoYo, $8).
41. **Soil moisture sensor**, Arduino compatible (by Amrela, $6).
42. **Soil moisture sensor**, Arduino compatible (by Sunkee, $5).
43. **Soil temperature/humidity sensor** (by Adafruit, $55).
44. **Speach synthesis module**, Arduino XBee compatible (by Zhangminivi, $30).
45. **Sound sensor**, mini, Arduino compatible (by Phantom YoYo, $8).
46. **Temperature & humidity sensor**, Arduino compatible (by Phantom YoYo, $8).
47. **Temperature & humidity sensor**, 4pc GHT11, Arduino compatible (by Geetech, $8).
48. **Temperature & humidity sensor**, 4pc GHT11, Arduino compatible (by Vtektech, $5).
49. **Touch screen**, 2.8 inch LCD, with SD card socket, for Arduino (by Yosoo, $13).
50. **Tracking sensor**, Arduino compatible (by Phantom YoYo, $7).
51. **Vibration sensor**, piezo (by Zhangminivi, $14).
52. **Vibration switch for Arduino, Raspberry Pi, ...** (by MCP Technology Systems, $8).
53. **Weather station**, WeatherPi, for Arduino, Raspberry Pi, ... (by SwitchDoc Labs, $25).
54. **Weather:** barometric pressure+temperature+altitude sensor for Arduino, Raspberry Pi, ... (by Adafruit, $12).
55. **Wi-Fi USB Adapter**, universal, and ideal for Raspberry Pi ... (by Edimax, $9).
56. **Wireless Transceiver** for Arduino, Raspberry Pi, ... (by Addicore, $7).
ADVANCED TINKERING

1. Parallella-16 Desktop Computer (by Adapteva, $99).
2. Parallella-16 Micro-Server (by Adapteva, $75).
3. Radxa Rock Pro, quad-core 1.6GHz, 2G RAM, 8G FLASH, open source, single-board computer (by Radxa, $119).
4. Cubieboard3 allwinner A20, dual-core ARM Cortex-A7 2G DDR, 8G FLASH, open hardware, single-board computer mini PC, supports Linux, Android, full kit (by Cubieboard, $110).

FPGA boards and accessories for still another kind of advanced TINKERING

2. Xilinx Spartan 3E FPGA Starter board, very complete (by Digilent, $295).
3. Xilinx Spartan 3E FPGA 100K Development Kit, low cost Basys2 (by Digilent, $89).
4. Altera Cyclone II Fpga Starter Development Kit, very complete (by Altera, $300).
5. Altera Cyclone II Fpga Starter Development Kit (by Altera, $104).
6. Altera Cyclone II Fpga Mini Development Kit, low cost (by RioRand, $24).
7. Altera Cyclone III Fpga Development Board (by Clarity, $140).
8. Altera Cyclone IV Fpga Development Learning Board (clone, $60).
9. USB Blaster USB - JTAG cable for all Altera products (by RioRand, $14).

LINKS

1. Arduino home page
3. Arduino hardware on Amazon. Buy boards, shields, sensors, actuators, accessories, ...
4. Raspberry Pi home page
5. Raspberry Pi on Wikipedia
6. Raspberry Pi hardware on Amazon. Buy boards, sensors, actuators, accessories, ...
7. BeagleBoard home page
8. BeagleBoard on Wikipedia
9. BeagleBoard hardware on Amazon. Buy boards, sensors, actuators, accessories, ...
10. Intel Galileo Gen 2 home page
11. Intel Galileo on Arduino-Certified
13. Intel Edison home page
15. Intel Edison on Arduino-Certified. Buy boards, actuators, accessories, ...
16. Intel hardware on Amazon
17. AVR-Firmware Random Numbers Generation
Complete list of books about informatics and electronics tinkering and hacking at home, in a garage, in a classroom, in a workshop and in a lab, using Raspberry Pi, Arduino, Intel Edison, Intel Galileo, BeagleBone, and the like. A unique resource, including hardware suggestions. Books about Home and Classroom Electronics Tinkering, Hacking, Programming, and having fun with Raspberry Pi, Arduino, Intel Edison, Intel Galileo, and the like. If you’re planning on tinkering around with electronics, whether it’s on a Raspberry Pi, Arduino, or anything else, you’ll need to know at least a little bit of programming. Hackster.io sent out a survey to figure out which three languages people thought were the best to learn. The survey was filled out by over 3,000 people from around the world. They overwhelmingly point to C and C++ as the language to learn if you’re into electronics tinkering. Behind C is Python, which is followed closely by Javascript, Java, and C#. Advertisement. As for the hardware itself, Arduino led the pack, with the