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

1. Benjamin Alex,
   *Raspberry Pi 2: Beginners User Manual*,

2. Borchers Jan,
   *Arduino in a Nutshell*,
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3. Bradt Paul, Bradt David, Opaskar Joanna,
   *Arduino Force, Pressure, Friction, and Acceleration Science Fair Projects*,

4. Brianson Tony,

5. Cook Mike, Evans Jonathan, Craft Brock,
   *Raspberry Pi Projects for Dummies*,

6. Daniels Charles F.,
   *Beginning Raspberry Pi 2*,

7. Donat Wolfram,
   *Pi Bites: I2C On The Raspberry Pi*,

8. Donat Wolfram,
   *Pi Bites: UART On The Raspberry Pi*,

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   *Home Automation with Intel Galileo*,

10. Finch Ira,
    *Build a Smart Raspberry Pi VPN Server: Auto Configuring, Plug-n-Play, Use from Anywhere*,

11. Gates Andy,
    *Raspberry Pi 2: 101 Beginners Guide*,

12. Gore William,
    *Raspberry Pi: Guide For Simple Python & Projects Programming*,

13. Grimmett Richard,
    *Intel Galileo Essentials*,

14. Johansen Andrew,
    *Raspberry Pi 2: The Ultimate Beginner’s Guide*,

15. Johnson Clifford,

16. Kumiawan Agus,
    *Getting Started with Windows 10 for Raspberry 2*

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    *Raspberry Pi Wireless Networks*,

18. McLaughlin Brian,
19. Monk Simon,
*Programming the Raspberry Pi: Getting Started with Python*,

20. Moyerman Stephanie,
*Getting Started with Intel Edison: Sensors, Actuators, Bluetooth, and Wi-Fi on the Tiny Atom-Powered Linux*,

21. Muniz Joseph, Lakhani Aamir,
*Penetration Testing with Raspberry Pi*,

22. Nixon Dan,
*Raspberry Pi Blueprints*,

23. Norris Donald,
*The Internet of Things: Do-It-Yourself at Home*,
Projects for Arduino, Raspberry Pi and BeagleBone Black,

24. Oates Matthew,
*Arduino for Beginners: How to get the most out of your Arduino*,
including Arduino Basics, Arduino tips and tricks, Arduino projects, and more!

25. Perea Francis,
*Arduino Essentials*,

26. Philbin Carrie A.,
*Adventures in Raspberry Pi*,

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*Troubleshooting Your AVR Based Arduino (UNO, MEGA, PRO-MINI)*,

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*Intel Galileo Gen 2 and Intel Edison for Beginners: A Hands-on Introduction*,

29. Santos Rui, Perestrello Luis M.C.,
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31. Schwartz Marco,
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*Raspberry Pi 2: Beginners Guide to Raspberry Pi*,

35. Silverman Shea,
*Raspberry Pi Gaming*,
Design, create, and play all kinds of video games on your Raspberry Pi computer,

36. Sjogelid Stefan,
*Raspberry Pi for Secret Agents*,

37. Upton Eben, Duntemann Jeffrey, Everard Ben, Davis Russell,
*Learning Computer Architecture with Raspberry Pi*,

38. Wallace Shawn,
*Make an Arduino-Controlled Drawbot: A Machine for Drawing Murals*,

39. Yoder Mark A., Krizner Jason,
*BeagleBone Cookbook: Software and Hardware Problems and Solutions*,

40. Wentrk Richard,
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42. Bates Daniel,
Raspberry Pi Projects for Kids,
43. Blum Richard,
Arduino Programming in 24 Hours, in Sams Teach Yourself,
44. Bradbury Alex, Everard Ben,
Learning Python with Raspberry Pi,
45. Holmes Adam,
Raspberry Pi for Beginners: Everything You Need to Know to Get the Most Out of Your Raspberry Pi,
46. Ibrahim Dogan,
Raspberry Pi Advanced Programming,
47. Karvinen Kimmo, Karvinen Tero,
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ARadio Amateur's Guide to Open Source Electronics and Microcontroller Projects,
63. Purdum Jack, Kiddler Dennis,
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64. Quan Ronald,
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**Getting Started with the Internet of Things**: Connecting Sensors and Microcontrollers to the Cloud, Maker Media 2011. ISBN 978-1449393571. [Paperback] [Kindle]

113. Warren John-David, Adams Josh, Molle Harald, 

**Arduino Robotics**

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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, 

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* Journey Deep into the World of Logic Chips, Amplifiers, Sensors, and Randomicity*, 

3. Ross Dickson, Lowe Doug, 

**Electronics All-in-One For Dummies**, 
For Dummies 2014. ISBN 978-1118589731. [Paperback] [Kindle]

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).
4. **Arduino Uno Rev3 Starter Kit Mega 2560 Mega328 Nano** (by SunFounder, $34).
5. **Arduino ATmega2560-16AU board for Arduino** (by Gikfun, $25).
6. **Netduino 3 WiFi** (by Secret Labs, $70).
7. **Netduino Plus 2** (by Secret Labs, $60).
8. **Netduino 1** (by Secret Labs, $20).
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).
19. **BeagleBone Black Starter Kit** (by Vilros, $67).
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 16bit 0.860 KSPS (by Adafruit, $15).
4. ADC/DAC Expansion shield for Raspberry Pi.
5. Bluetooth Wireless Transceiver for Arduino, Raspberry Pi, ... (by Kedsum, $10).
7. Bluetooth USB Adapter, for Raspberry Pi, and more (by JBtek, $9).
8. Camera Module for Arduino (by Yosoo, $10).
10. Camera: Smart Vision - Object Tracking

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.

11. Distance sensor, ultrasonic, 2pc, for Arduino (by SunFounder, $9).
12. Distance sensor, ultrasonic, 2pc, for Arduino (by D1Ymail, $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 iPazzPort, $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 Microutly, $4).
25. Light sensor, photoresistive, Arduino compatible (by Phantom YoYo, $8).
26. Light sensor, photoresistive, 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 JBtek, $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, $9/28/28/76).
32. Memory Cards 8/16/32/64/128 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 5V20mA drivers, AC250V/10A or DC30V/10A output universal (by Tolako, $4).
36. Relays: 2-channels 5V20mA drivers, AC250V/10A or DC30V/10A outputs universal (by Kootek, $6).
37. Relays: 4-channels 5V20mA drivers, AC250V/10A or DC30V/10A outputs universal (by SainSmart, $8).
38. Relays: 8-channels 5V20mA drivers, AC250V/10A or DC30V/10A outputs universal (by JBtek, $9).
39. Relays: 16-channels 5V20mA 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 Arela, $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 Vtech, $5).
49. Touch screen, 2.8 inch LCD, with SD card socket, for Arduino (by Arduino, $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 wheaterPiArduino, 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
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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
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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
At-home creators are selling their own electronic devices and schematics on the Internet through sites like Ponoko. Above, Ponoko's founders, David ten Have, left, and Derek Ellery. Credit Peter DaSilva for The New York Times. At a time when most electronic gadgets come out of huge factories in Asia, Limor Fried works on a different scale. Ms. Fried, a graduate of the Massachusetts Institute of Technology who lives in New York, builds homemade electronics kits and sells them online. The idea is that people will learn a little about electronics by assembling the kits and, in the end, have Ethical hacking is defined as making use of programming skills, so as to penetrate a computer system, and determine its vulnerabilities. The ethical hackers are skilled computer experts, often called as the "white hats". As against non-ethical hackers or "black hats" that penetrate into a computer system and exploit it for their own personal gains or mischief, the "white hats" evaluate and point out the vulnerabilities of system software, and suggest system changes to make it less penetrable. Are you willing to become an ethical hacker? One of the best ways is to start reading books about hacking and try it yourself. Some of the best how to hack books that an aspiring ethical hacker must read are: Hacking: The Art of Exploitation, 2nd Edition.