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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Related works


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).
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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).
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).
6. **Bluetooth Wireless Transceiver** for Arduino, Raspberry Pi, and more (by JBtek, $9).
7. **Bluetooth USB Adapter** for Raspberry Pi, and more (by JBtek, $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 DIYmall, $5).
13. **Ethernet Shield SODIAL** for Arduino Uno (by Toogoo, $7).
15. **Expansion Board for Raspberry Pi**. Data logging and control of slow devices (by SBE Solar Tech, $49).
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 (by 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 Microvity, $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, $9/26/28/76).
32. **Memory Cards** 8/16/32/64/128/200 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 Tolako, $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 JBtek, $9).
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40. **Soil moisture sensor**, high sensitivity, Arduino compatible (by Phantom YoYo, $8).
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42. **Soil moisture sensor**, Arduino compatible (by Sunkee, $5).
43. **Soil temperature/humidity sensor** (by Adafruit, $55).
44. **Speech 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**, WeatherPiArduino, 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).
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