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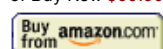
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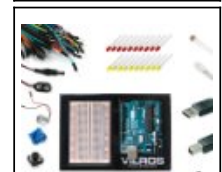
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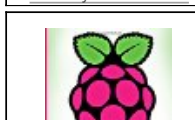
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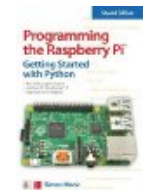
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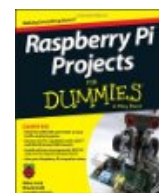
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17. **Intel Edison Kit for Arduino** (by Intel, \$112).
18. **BeagleBone Black Rev C (4G)** (by EleDuino, \$55).
19. **BeagleBone Black Starter Kit** (by Vilros, \$67).

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 16bit/0.860 KSPS (by Adafruit, \$15).
4. **ADC/DAC Expansion shield** for Raspberry Pi.
ADCs: 8x 24 bit/30 KSPS; **DACs**: 2x 16bit/30MHz (by WaveShare, \$37).
5. **Bluetooth Wireless Transceiver** for Arduino, Raspberry Pi, ... (by Kedsum, \$10).
6. **Bluetooth Wireless Transceiver** for Arduino, Raspberry Pi, ... (by InnoGear, \$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).
14. **Expansion Board** for Raspberry Pi, Arduino, XBee. **ADCs**: 11x 10bit/38 KSPS (by WaveShare, \$28).
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 (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 Microtivity, \$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 MB/s** (by SanDisk, \$9/28/28/76).
32. **Memory Cards 8/16/32/64/128/200 GB, Micro SDXC (ultra), 48 MB/s** (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).
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 Arrela, \$6).
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 Vktech, \$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

1. [Xilinx Spartan 3A FPGA Development Board Elbert V2](#) (by Numato Lab, \$35).
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](#)
2. [Arduino on Wikipedia](#)
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](#)
12. [Intel Galileo on Wikipedia](#)
13. [Intel Edison home page](#)
14. [Intel Edison on Wikipedia](#)
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.