



Hacking Electronics: Learning Electronics with Arduino and Raspberry Pi, Second Edition

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by **Simon Monk**

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## Up-to-date hacks that will breathe life into your Arduino and Raspberry Pi creations!

This intuitive DIY guide shows how to wire, disassemble, tweak, and re-purpose household devices and integrate them with your Raspberry Pi and Arduino inventions. Packed with full-color illustrations, photos, and diagrams, *Hacking Electronics: Learning Electronics with Arduino and Raspberry Pi, Second Edition*, features fun, easy-to-follow projects. You'll discover how to build an Internet-controlled hacked electric toy, ultrasonic rangefinder, remote-controlled robotic rover, audio amp, slot car brakes and headlights—even a smart card reader!

- Get up and running on both Arduino and Raspberry Pi
- Safely solder, join wires, and connect switches
- Identify components and read schematic diagrams
- Work with LEDs, including high-power Lumileds and addressable LED strips
- Use LiPo batteries, solar panels, and buck-boost power supplies
- Use sensors to measure light, temperature, acceleration, sound level, and color
- Build and modify audio amps, microphones, and transmitters
- Repair gadgets and scavenge useful parts from dead equipment
- Get the most out of cheap or free bench and software tools