



# Make Your Own PCBs with EAGLE: From Schematic Designs to Finished Boards

*Simon Monk*

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# Make Your Own PCBs with EAGLE: From Schematic Designs to Finished Boards

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## **Design custom printed circuit boards with EAGLE**

Learn how to make double-sided professional-quality PCBs from the ground up using EAGLE--the powerful, flexible design software. In this step-by-step guide, electronics guru Simon Monk leads you through the process of designing a schematic, transforming it into a PCB layout, and submitting standard Gerber files to a manufacturing service to create your finished board. Filled with detailed illustrations, photos, and screenshots, *Make Your Own PCBs with EAGLE* features downloadable example projects so you can get started right away.

- Install EAGLE Light Edition and discover the views and screens that make up an EAGLE project
- Create the schematic and board files for a simple LED project
- Find the right components and libraries for your projects
- Work with the Schematic Editor
- Lay out PCBs with through-hole components and with surface mount technology
- Build a sound level meter with a small amplifier and ten LEDs
- Generate Gerber design files to submit for fabrication
- Solder through-hole PCBs and SMD boards
- Design a plug-in Arduino shield
- Build a Raspberry Pi expansion board
- Automate repetitive tasks using scripts and User Language Programs
- Create your own libraries and parts and modify existing components

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