



Open-Source Lab: How to Build Your Own Hardware and Reduce Research Costs

Joshua M. Pearce

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Open-Source Lab: How to Build Your Own Hardware and Reduce Scientific Research Costs details the development of the free and open-source hardware revolution. The combination of open-source 3D printing and microcontrollers running on free software enables scientists, engineers, and lab personnel in every discipline to develop powerful research tools at unprecedented low costs. After reading *Open-Source Lab*, you will be able to:

- Lower equipment costs by making your own hardware
 - Build open-source hardware for scientific research
 - Actively participate in a community in which scientific results are more easily replicated and cited
-
- Numerous examples of technologies and the open-source user and developer communities that support them
 - Instructions on how to take advantage of digital design sharing
 - Explanations of Arduinos and RepRaps for scientific use
 - A detailed guide to open-source hardware licenses and basic principles of intellectual property

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