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### DESCRIPTION

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*HardwareX* is an open access journal established to promote free and open source designing, building and customizing of scientific infrastructure (hardware). *HardwareX* aims to recognize researchers for the time and effort in developing scientific infrastructure while providing end-users with sufficient information to replicate and validate the advances presented. *HardwareX* is open to input from all scientific, technological and medical disciplines. Scientific infrastructure will be interpreted in the broadest sense. Including hardware modifications to existing infrastructure, sensors and tools that perform measurements and other functions outside of the traditional lab setting (such as wearables, air/water quality sensors, and low cost alternatives to existing tools), and the creation of wholly new tools for either standard or novel laboratory tasks. Authors are encouraged to submit hardware developments that address all aspects of science, not only the final measurement, for example, enhancements in sample preparation and handling, user safety, and quality control. The use of distributed digital manufacturing strategies (e.g. 3-D printing) is encouraged. All designs must be submitted under an open hardware license.

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## GUIDE FOR AUTHORS

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HardwareX encourages the submission of high quality contributions that address hardware developments in all aspects of science, not only the final measurement, for example, enhancements in sample preparation and handling, user safety, and quality control. The use of distributed digital manufacturing strategies (e.g. 3-D printing) are encouraged. All designs must be submitted under an open hardware license.

Authors are strongly advised to read through the guide for authors as submission requirements are significantly different to a standard journal. The aim of HardwareX is to recognize researchers for the time and effort in developing scientific infrastructure while providing end-users with sufficient information to replicate and validate the advances presented.

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[2] J.M. Pearce, Building Research Equipment with Free, Open-Source Hardware. *Science*, 337(6100), (2012) 1303-1304. <http://doi.org/10.1126/science.1228183>

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[3] J.M. Pearce, *Open-Source Lab: How to Build Your Own Hardware and Reduce Research Costs*. Elsevier, Amsterdam, 2013.

Reference to a chapter in an edited book:

[4] T. Tseng, Modifying the Shape of an Arduino, in: A. Gibb (Ed.), *Building Open Source Hardware: DIY Manufacturing for Hackers and Makers*, Pearson Education, New York, 2014, 83-94.

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[5] R. Stallman, Why We Need Free Digital Hardware Designs. <http://www.wired.com/2015/03/need-free-digital-hardware-designs/>, 2015 (accessed 03.02.16)

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