



Internship title: Off Grid Raspberry Pi master intern

Organization: ASU SolarSPELL Initiative (Solar Powered Educational Learning Library)

Location: Tempe; remote

Type of internship: Non-paid

Application deadline: rolling until filled

Start date: August 18th

Description:

SolarSPELL is seeking an intern with Linux OS and Web specialization skills to assist in optimizing the systems our digital libraries operate on. As our digital libraries grow in size and number of resources, the intern and staff team will work to ensure that libraries will continue to run smoothly and efficiently on the Raspberry Pi OS and the RPi 3b+, all offline.

SolarSPELL is an offline, digital library initiative at Arizona State University that provides localized educational information and the training to build 21st-century skills in offline environments that may lack electricity, internet connectivity, and/or traditional libraries. We work with in-field partners, like the Peace Corps and the UN Refugee Agency, to build local capacities and ensure long-term, sustainable impact.

Users connect to the SolarSPELL offline, digital library over WiFi, using any WiFi-enabled device (smartphones, tablets, laptops) to freely, and safely, surf thousands of resources that are carefully curated and continually improved to meet local information needs.

More information on SolarSPELL can be found here: <http://solarspell.org>

This internship offers an exciting opportunity to contribute to improving the quality of educational information available to students and teachers around the world, whose schools may lack Internet connectivity, electricity, and/or traditional libraries. Your contributions will be brought to the field and used by teachers and students, within months of your internship!

Interns will be expected to attend a new intern orientation upon the start of the internship. Ideal candidates will be detail-oriented and self-starters.

Essential Duties:

- Application and Raspberry OS optimization
- identify software bloating
- HTML skills
- Building a lightweight OS and WEB environments
- Sensing and data logging

Minimal Qualifications:

- Have used and understand Raspberry Pi hardware and OS
- Linux operating system and optimization skills
- ASU student enrolled in a CS program

How to apply: If you are interested in applying for this position, please submit a resume and cover letter to Courtney Finkbeiner at courtney.finkbeiner@asu.edu. All documents should be in PDF format and follow the naming style of [LastName_FirstName_DesiredPosition]