Internship title: Embedded Software Engineer

Organization: SolarSPELL (Solar Powered Educational Learning Library)

Location: Tempe; partially remote

Type of internship: Non-paid; 4-10 hours per week

Application deadline: Dec. 1st 2022, applications will continue to be accepted and reviewed every week until the position is filled. Initial application review will begin after Dec. 1st

Start date: January 9th, 2023

Description:

SolarSPELL is seeking one embedded software engineer intern to help test and implement a smart charge controller that is integrated into our offline digital library hardware. The intern will work with SolarSPELL staff throughout the life of the project.

SolarSPELL at ASU is a global educational initiative that combines curated digital libraries, solar-powered technology, and the training to build information literacy and internet-ready skills in offline environments, focusing on the half of the world that remains unconnected. Our offline digital library is designed to bring educational content to resource-constrained locations that may lack electricity, Internet connectivity, and/or traditional libraries. The SolarSPELL library emits an offline WiFi hotspot, to which any WiFi capable device (smartphones, tablets, laptops) can connect and browse the expansive content for free.

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:

- Flash processor with firmware
- Test to ensure software flashed onto processor properly reads data from charge controller
- Establish quality assurance procedure to be used for all future charge controllers

Minimal Qualifications:

- Embedded software experience and/or coursework
- SER 486 a plus

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]