projectpam.github.io

* Welcome to Project PAM

We are a team of undergraduate engineering students working on a Senior Design Project at Southern Illinois University Carbondale. We have great passion for advancing the open source and 3D printing community.

Team Photo

PAM stands for **P**hotoresin **A**dditive **M**anufacturing. This type of 3D printing gets away from the extruded plastic spaghetti machines that we're all familiar with and instead uses light-curing resins to build your models. This means higher resolutions, fewer moving parts, and faster build times and the only jam to worry about is the kind you eat with peanut butter.

Project PAM is seeking to take DLP 3D printing in a new direction of higher build volumes and lower costs without sacrificing resolution. The goal for this project is to produce a high resolution DLP printer that is fully open sourced using off-the-shelf hardware and that is well documented.

* Why Open-Source?

Our first priority when starting out was to keep everything open-source; this includes both hardware and software. To ensure this, we have followed the Open Source Hardware (OSHW) Definition set by the Open Source Hardware Association (OSHA).

The licenses Project PAM use are:

1. Hardware: CERN OHL v1.2
2. Software: GNU GPL 3.0
3. Documentation: CC BY-SA 4.0

* Tired of Those Stupid Spaghetti Machines?
* How is our design more flexible?
* Releases

First release coming soon!

* Contact Us.

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projectpam.github.io/Software

* Introduction

What it is based off of

* Open-Source

OSHWA

* Releases

First release coming soon!

* Contributing

Here’s how we suggest you go about proposing a change to this project:

1. [Fork this project][fork] to your account.
2. [Create a branch][branch] for the change you intend to make.
3. Make your changes to your fork.
4. [Send a pull request][pr] from your fork’s branch to our `master` branch.

Using the web-based interface to make changes is fine too, and will help you by automatically forking the project and prompting to send a pull request too.

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projectpam.github.io/Hardware

* Introduction
* Open-Source

OSHWA

Open source hardware is hardware whose design is made publicly available so that anyone can study, modify, distribute, make, and sell the design or hardware based on that design. The hardware’s source, the design from which it is made, is available in the preferred format for making modifications to it

<http://www.oshwa.org/definition/>

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