Prezi Script:

"Hello, and welcome to Project Pam"

"We are a team of engineering students at Southern Illinois University Carbondale and we are working on a design for an open source DLP 3D printer."

"Project PAM is seeking to take DLP printing in a new direction of higher build volumes and lower costs without sacrificing resolution. "

"We've spent the last six months turning out a design that will do just that and now what we're asking of you, the 3D printing community, is to help fund the cost of building a working prototype"

"PAM stands for photoresin additive manufacturing. 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"

"Our design will be 100% completely open-source, offer great flexibility for the end user, and higher build volume at a lower cost."

"Our first priority when starting out was to keep everything open-source; this includes both hardware and software. To ensure this, we have followed standards set by the open-source hardware association. All software will be released through GPL, all hardware will be released through CERN, and all documentation will be shared with Creative Commons Share Alike. All aspects of the design will be thoroughly documented."

"The result of this type of design is great flexibility for the user in their final product. Project PAM will only be using off-the-shelf parts which means they can easily be replaces to suit individual needs."

"The second task we set out to conquer was the relatively small build volumes of current DLP printers. Our design features a build volume comparable to leading FDM printers with no cost to precision. We are able to accomplish this feat by support two 1080p projectors"

"Finally, the number everyone is concerned with, cost. But fortunately, all parts for the printer can be purchased for under $1,000"

"We realize this is an ambitious design, but we are a motivated and excited group of engineers and we have great passion for advancing the 3d printing community."

"Thanks for watching. Find us on GitHub at projectpam.github.io"