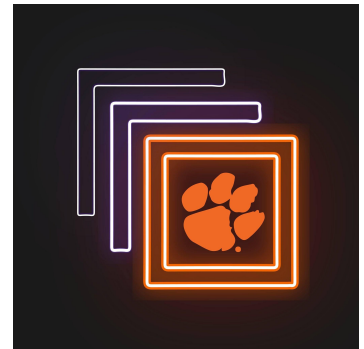


Contact: Clemson University Makerspace

Telephone: (864) 656-9409

Website: <https://www.cumaker.space/>



FOR IMMEDIATE RELEASE

December 15th, 2024

CLEMSON MAKERSPACE IMPLEMENTS NEW 3D PRINTING ECOSYSTEM

The organization has recently taken a leap in the efficiency and experience of student 3D printing.

Clemson, South Carolina, December 15th, 2024 - Clemson Makerspace is proud to announce that they've implemented a full OctoPrint ecosystem across the Makerspace. They hope that this new ecosystem will enhance the atmosphere and experience of every student that uses and enjoys the space, as well as reduce the amount of physical labor required to keep the space running smoothly. To start with, they've connected 17 new Raspberry Pis, each running OctoPi, to the LulzBot 3D printers in the Watt Makerspace. While it might not be fully clear to you what this means, it has transformed the data collection and student user experience for 3D printing at the Makerspace.

Previously, students had to enter the Makerspace with their 3D print file, fill out an excessively long google form to describe their print information. With the new system, the print information is automatically collected from the Raspberry Pi and uploaded to the Makerspace's unified database in Amazon Web Services (AWS). Now, students no longer have to manually provide their print information, meaning they can focus more on enjoying the atmosphere that the Makerspace provides and experimenting with their ideas.

The implementation of OctoPrint, the user interface for OctoPi, has also removed the need for Makerspace staff to manually upload their file from the on-site computer to an SD card that would be inserted into the printer. Instead, staff can now manage and send prints to the 3D printers from a central desktop using the OctoPrint user interface. Staff are also able to monitor the status of each and every printer within the Makerspace from

that central computer. The interns now have more freedom to interact with students that are visiting the Makerspace, providing the students with increased quality of service, and in turn, a better overall experience.

###

Clemson Makerspace is a collaborative work space free for the Clemson community, including 3D printing, laser engraving, vinyl cutting and other creative technologies.