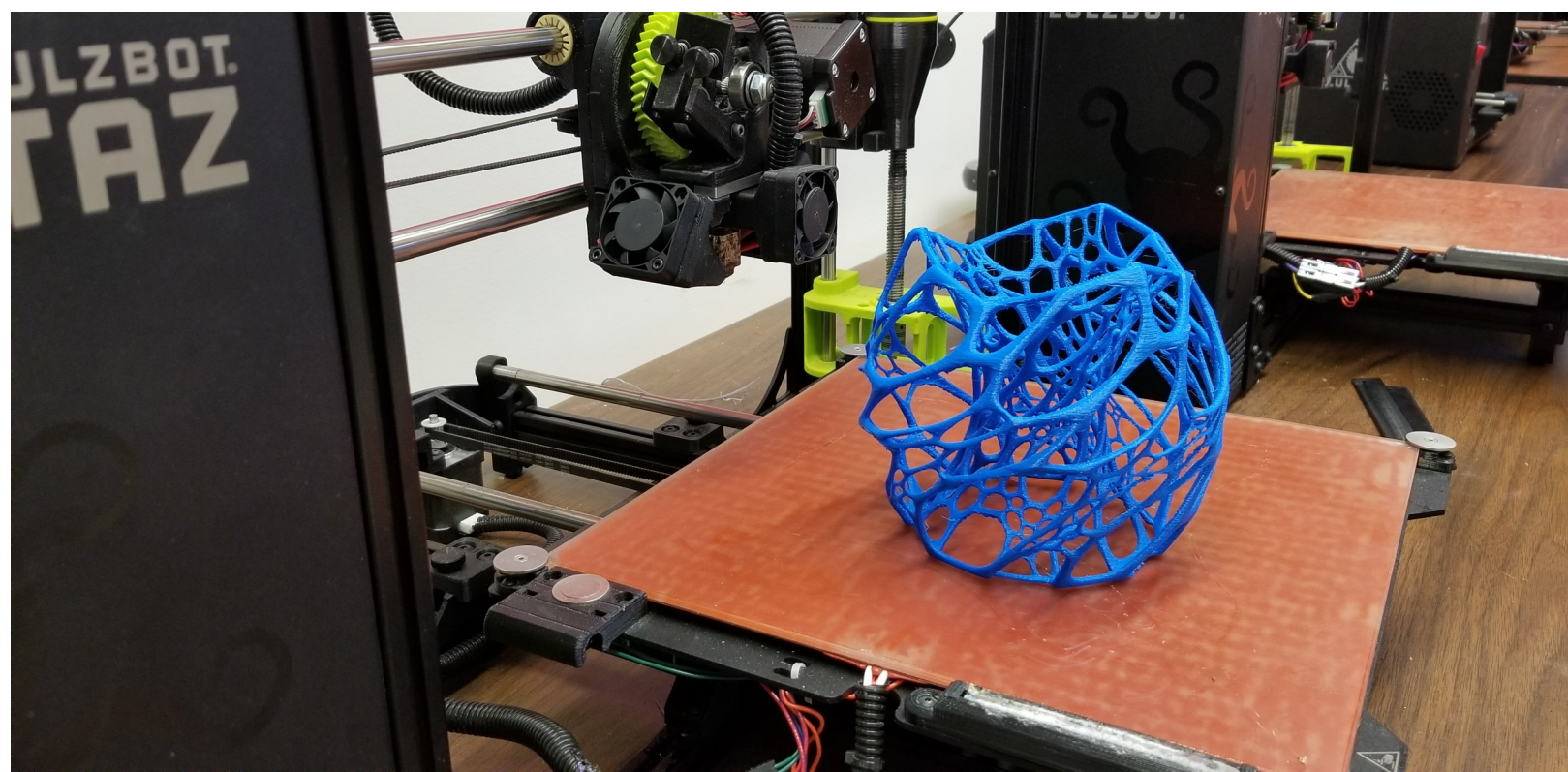


1-1-2018

MakerLab Annual Report 2018

Amy Vecchione
Boise State University

MakerLab Annual Report



ALBERTSONS LIBRARY

About Albertsons Library's MakerLab

Albertsons Library's MakerLab is available to Boise State University students, staff, and faculty to boost their creative confidence. Use of the equipment is free for all, and creates an environment where students can obtain job skills, invent, prototype, explore, and build their ideas.

Fundraising

Raised \$3715 from 44 supporters for funding a laser cutter during Bronco Giving.

Grants

Completed planning grant with IMLS acquiring materials and stipends for two faculty to participate in training and coursework: Leslie Madsen and Stephen Crowley

Psychology professor Brian Stone acquired funding for a new 3D printer and supplies to support a course

Fast Facts

- 13 3D printers
- 750 active makerspace users
- 170% growth in use
- 15 instruction sessions each semester
- Over 30 courses rely on makerspace equipment to accomplish course objectives
- Over 3000 hours of use per year on the 3D printer Taz 6
- Most 3D printers have over 2000 hours of use

Hours

Monday—Friday 10 a.m. — 6 p.m.

Projects

Simulation Lab and Heart Models

In Spring 2018 Prof. Samantha Davis and the students in her course created neonatal heart defect models to better learn about these defects. This project gained national attention, earning Prof. Davis an award for innovation in teaching. Boise State Public Radio interviewed Prof. Davis and Prof. Vecchione regarding this exciting project.

Vulcanology Sensors

Working with Prof. Jeffrey Johnson, the MakerLab was able to help him improve his sensor casing prototype.

Psychology Course

Prof. Brian Stone and Prof. Deana Brown taught a course on designing prototypes for the blind and visually impaired learners. Student groups designed prototypes to help the community with makerspace tools.

PCB Milling

The Nomad Carbide desktop milling device allows users to build custom PCB milling prototypes. Faculty and students are now using this device to custom build prototype parts, and also to create PCBs.

Vacuum Former

A new vacuum forming device allows users to create molds for both food and casting out of complex 3D printed designs.

Vinyl Cutter

Many makerspace users utilize the Silhouette Vinyl Cutter to make custom products. Users can bring in their own sticker materials to cut and prototype.



BOISE STATE UNIVERSITY

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