# Pasadena City College

# FABLAB

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# FABLAB


The FABLAB at Pasadena City College is a space for students to learn the processes involved in creating physical models across a variety of digital fabrication methods. The facility serves PCC students from many different disciplines who are interested in exploring rapid prototyping, digital

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# FABLAB

## LASER CUTTING

The Fab Lab has two VLS 6. laser cutters used for cutting and engraving on an array different materials.


http://www.ulsinc.com/products/vls660/

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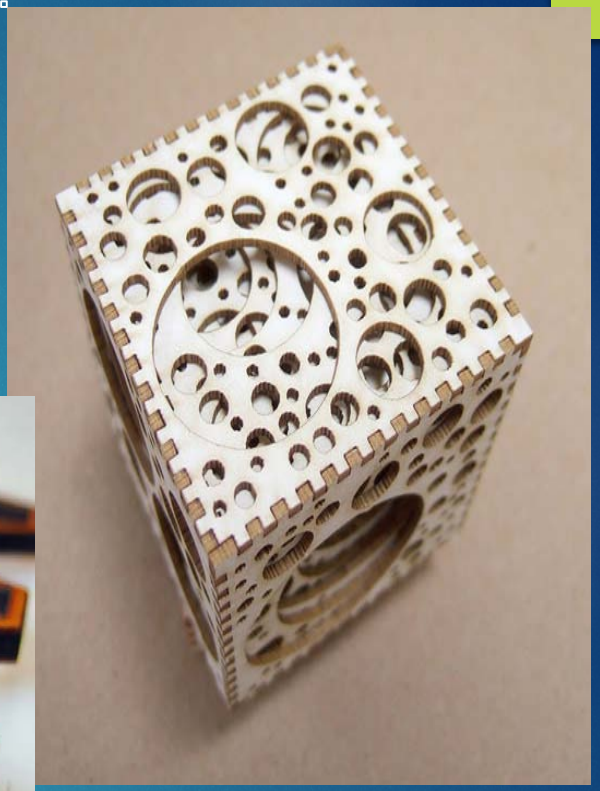
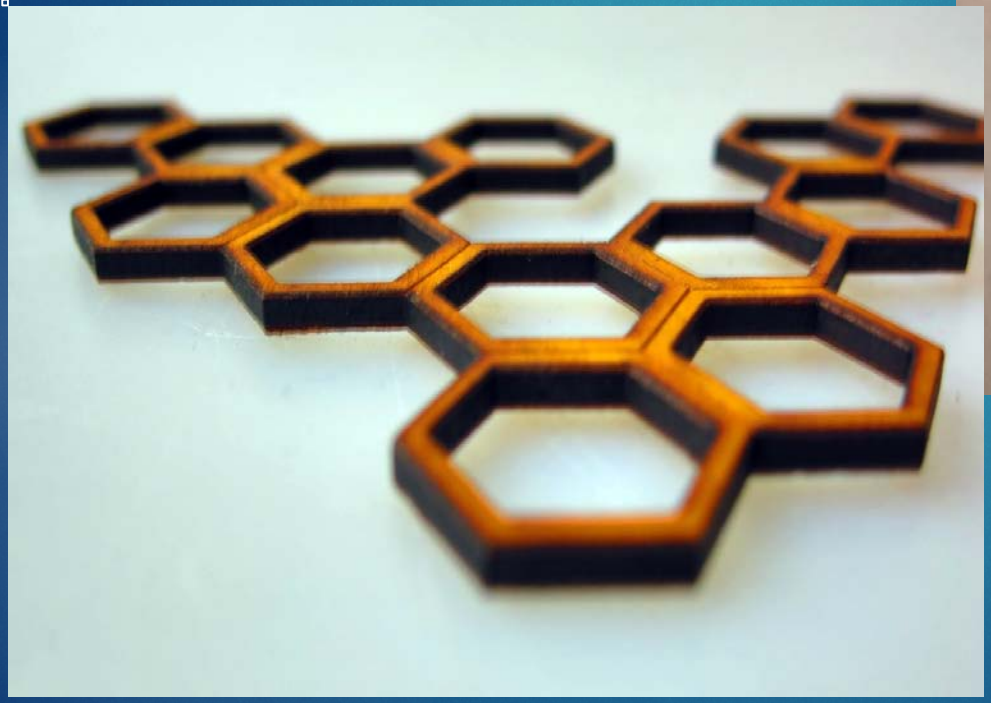
# FABLAB

## LASER CUTTING

### PROJECTS



http://www.creativebloq.com/design/examples-laser-cutting-11317



http://blog.inventables.com/2012/11/laser-cut-projects-colony-coasters.html

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## LASER CUTTING

### PROJECTS

http://guavaduck.com/laser/

http://www.instructables.com/id/Teachers-Resource-3D-Laser-Cut-Projects/

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## LASER CUTTING

## PROJECTS

https://www.pinterest.com/pin/434456695276022107/

http://makezine.com/projects/make-33/laser-cut-book-covers/

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## 3D PRINTING

The FABLAB offers access to an impressive assortment of 3D printing technology, including several FDM (Fused Deposition Modeling) printers and one SLA (Stereolithography) printer. Models can be printed in PLA and ABS plastic, as well as resins with differing material properties

http://www.digitalmeetsculture.net/article/3d-printing-applied-to-cultural-he

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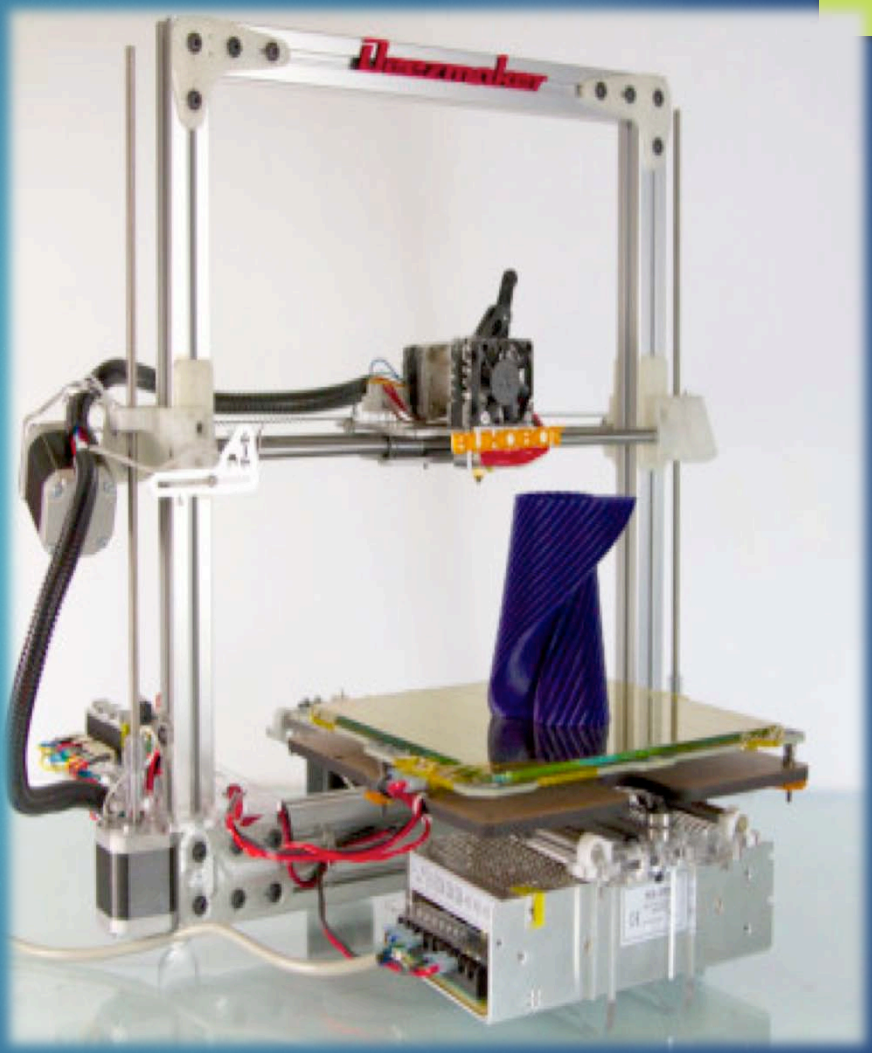
## 3D PRINTERS

### BukoBot

Materials:
PLA Plastic, ABS plastic, Nylon

Build Volume:
8 x 8 x 8 inches

Benefits:
Large print volume.
Multiple materials.



http://bukobot.com/

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## 3D PRINTERS

MakerBot Replic

Materials:
PLA Plastic

Build Volume:
9.9 x 7.8 x 5.9 inches

Benefits:
Large print volume.
Affordable materials.
Good quality models.


http://www.makerbot.com/presskit

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## 3D PRINTERS

## AIO Robotics - ZE

Materials:
PLA Plastic

Build Volume:
8 x 6 x 5.7 inches

Benefits:
All-in-one printer and scanner. Affordable materials. Good quality models.


http://www.solidsmack.com/fabrication/aio-robotics-zues-all-in-one-3d-printerscanner-launches-closes-in-on-funding/

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## 3D PRINTERS

Stratasys uPrint

Materials:
ABSplus Plastic

Build Volume:
8 x 8 x 6 inches

Benefits:
Durable, stable, accurate models

https://3dprint.com/21400/uprint-se-plus-stratasys-trial/

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## 3D PRINTERS

### Formlabs Form

Materials:
Resin – tough, castable, flexible, clear, dental SG

Build Volume:
4.9 x 4.9 x 6.5 inches

Benefits:
Very high resolution, fine


http://formlabs.com/ja/products/3d-printers/form-1-plus/

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## 3D SCANNING

The FABLAB is happy to offer access to 3D scanning technologies. Students are able to digitally capture 3D point data as well as high-res image data at each point, creating photorealistic 3D digital renderings.

http://www.eevblog.com/forum/reviews/3d-scanner-the-nextengine-2020i-my-latest-purchase/

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## 3D SCANNERS

### NextEngine

Type: Laser Scanner

Specs:
Accuracy - .005”
Points per inch: 150-400

Benefits:
Very high resolution, captures image

http://www.eevblog.com/forum/reviews/3d-scanner-the-nextengine-2020i-my-latest-purchase/?action=dlattach;attach=177171;image

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## 3D SCANNERS

## Sense 3D scanner

Type: Laser Scanner

Specs:

Resolution – 1mm
Max scan volume – 2m x 2m x 2m

Benefits:
Hand Held, can scan large objects


http://www.3ders.org/images/sense-scanner-2.png

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# FABLAB


For more information regarding usage of the FABLAB at Pasadena city college, please contact Eamon Conklin at:

edconklin@Pasadena.e

- Work Experience Video