



# Innovation Lab

at the St. Paul Public Library

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# Innovation Lab

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## A Free Maker Space for Adults »

For tinkerers, entrepreneurs, artists, hobbyists, inventors, and the just plain curious. Free membership is required. [Learn more.](#)



# Free Membership

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Valid library card. Library cards from other counties need to be validated and cannot have outstanding fines.

Completion of the one-hour orientation to the lab.

Completion of membership sign-up forms.

# Equipment

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## **Digitization**

DVD/VCR recorder combo

Video Capture adapter

Roxio Easy VHS to DVD and  
Cassette/LP to MP3 software

Blank CDs and DVDs available for  
purchase





# Roxio VHS to DVD Converter

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# Copyright Laws

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The library does not allow making copies of commercially produced videos or cassette tapes.

The library offers a class in copyright laws and their application.

# Laser Cutting

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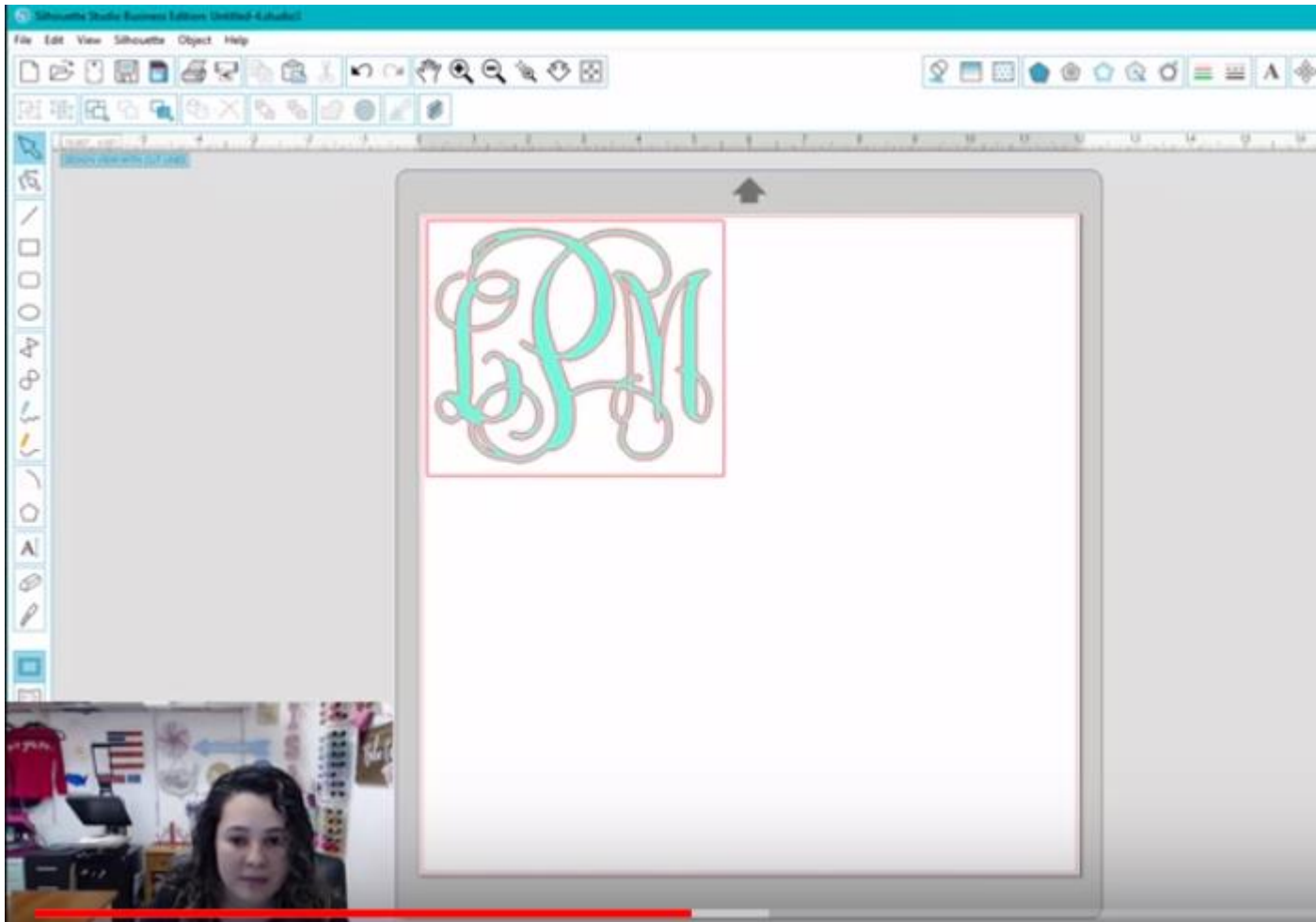
## **Cutting**

Silhouette Cameo 3 cutter

Sketch pens

Vinyl, cardstock, transfer sheet





Create the  
Design  
using  
software



Feed the  
vinyl sheet  
into the  
Silhouette  
Cameo 3

# Peel Away

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# Cover with Transfer Tape

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# Laser Cutter – Silhouette Cameo 3

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**Here are some materials that the Silhouette Cameo can cut:**

- Paper/Cardstock up to 350 gsm thick.
- Tissue paper.
- Vinyl.
- Iron-on transfer.
- Cereal box chipboard.
- Craft foam.
- Lightweight fabric.
- Rhinestone template material.

# Software for Silhouette Cameo 3

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Silhouette Studio

Adobe Illustrator

# Projects Using the Silhouette Cameo 3

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Vinyl Monogram Transfers

Custom Business Cards

Glass Etching design transfer

T shirt design transfer

# Laser Engraver

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## **Laser**

Universal VLS 3.50 50W laser

Fume exhaust filtration system

Engraving table

Cutting table

Rotary fixture

Supplies for sale



# Software for Laser Engraver

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Corel Draw

Adobe Illustrator

# Materials for Laser Engraving

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Wood

Metal

Material for rubber stamps

Cardboard

# Engraver Supplies



# Laser Engraving Projects



# Laser Cut Rubber Stamps



# 3D Printing

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## **3D Printing**

Afinia H800 3D printer

ABS & PLA filament, various colors

1 Copper-infused PLA roll

Various tools





# 3D Printer

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# Resources for 3D Projects

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Thingiverse – You can download the .stl file

Cura – for printing preferences

# Filaments

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The library has filament available.

Or You can bring in your own filament but it must be approved by the staff.

Types of filaments are limited to those that do not generate strong odors given the space.

# Tech Suite

16 Skype-enabled Thinkpads

1 MacBook

9 Adobe Creative Cloud licenses

20 Sony headphones

1 Canon EOS 70D DSLR camera



Computers & Other Equipment

## Recording Studio

Editing suite with isolation booth

iMac with GarageBand and  
ProTools 12

Yeti and AKG microphones

Studio headphones

Focusrite Scarlett audio interface

MIDI keyboard

Moog synthesizer



Recording  
Studio &  
Equipment &  
Software



# Recording Studio-Music and Podcasts

## **Classroom**

Space for orientations,  
workshops, online learning,  
training, and events.

2 private study rooms



# Classroom

# Supplies Available and Prices

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## **Thick Wood**

- Variety of pieces including maple, walnut: \$5 each

## **Wood**

- Basswood: \$6.00/sheet
- Plywood: \$3.00/piece
- 12" x 24" plywood sheets: \$6.00/sheet

## **Acrylic**

- \$15.00/12" x 24"

## **DVDs & CDs**

- \$0.25 each

## **Earring Posts**

- \$0.25 each

## **Adhesive Magnetic Strips**

- \$0.10/inch

## **Vinyl Sticker Sheets**

- \$1.00/12" x 12" sheet

## **3D Printing**

\$2.00 per hour

## Sewing

1 Brother PC420 PRW  
computerized sewing machine

4 Singer machines

Patterns, fabric, and notions

Jewelry supplies

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Sewing Machines & Supplies

# Knitting and Yard Crafts & Supplies

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## **Yarn Crafts**

Crochet hooks

Knitting needles

Yarn of various types and colors

Patterns



# Human Resources & Other Resources

Expert advice from well-trained staff.

You can sign up for 2-hour slots with assistance from staff.

Once you are deemed qualified you can sign up for 2-hour slots to work the equipment on your own.

Volunteers give regular demo classes on using the equipment.

The lab has a Meetup group.

There is a Facebook page devoted to the lab.

An electronic newsletter from the lab can be delivered to your email.



# Additional Classes

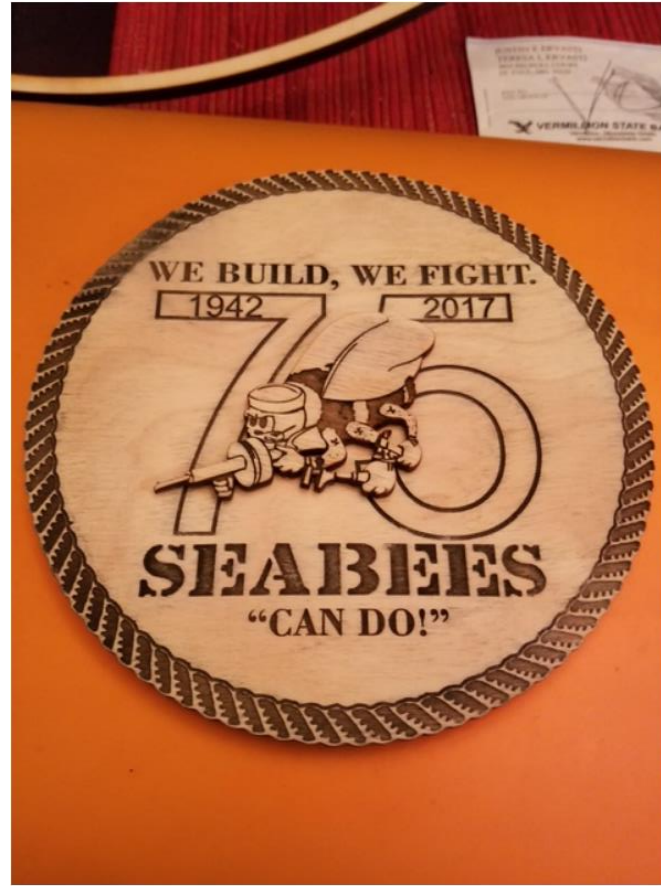
Computer classes in MS Office and Adobe Creative Suite are offered at the central library as well as at Rondo and Arlington Heights libraries.

Classes are free.

Schedule of classes is available online at [sppl.org](http://sppl.org)

# Laser Engraving Projects

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Laser Cut Metal

# Laser Cut Wine Glass





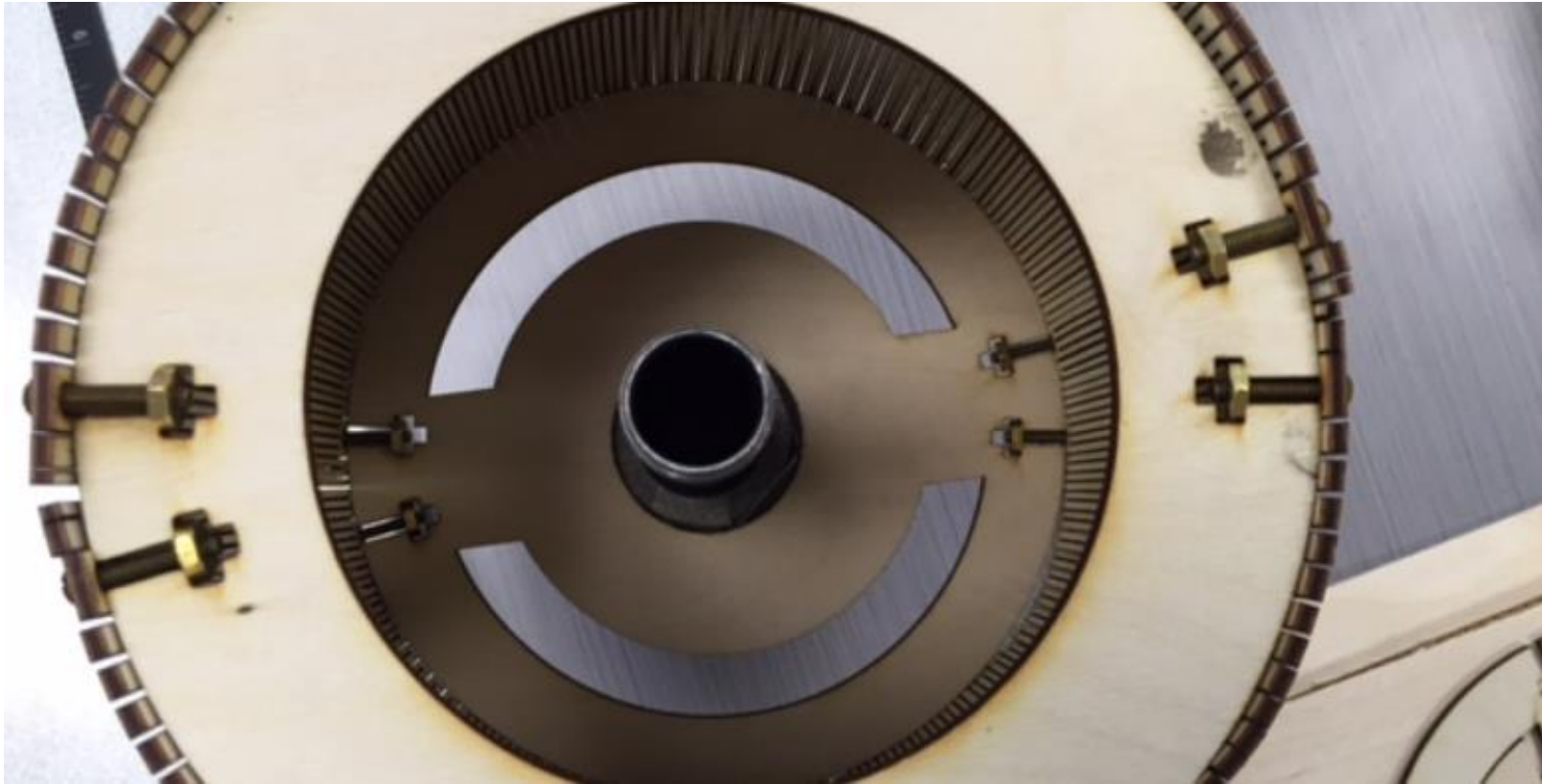
# 3D Printed Hydroponic System Components

# 3D Printed Flower





# 3D Printed Trumpet Mouthpiece



Lamp Created Using Laser Engraver

# Projects

