FIRST TECHNOLOGIES

FABLAB

Laser Engraver
Laser engravers offer a unique design solution in the FabLab. A laser engraver can engrave or cut many types of materials with great precision. Epilog makes high quality laser engravers that work with a wide range of materials including plastic, wood, glass, leather, marble, matte board, paper, and more. Laser engravers have been a great draw to programs because of the variety of functions they serve in the classroom.

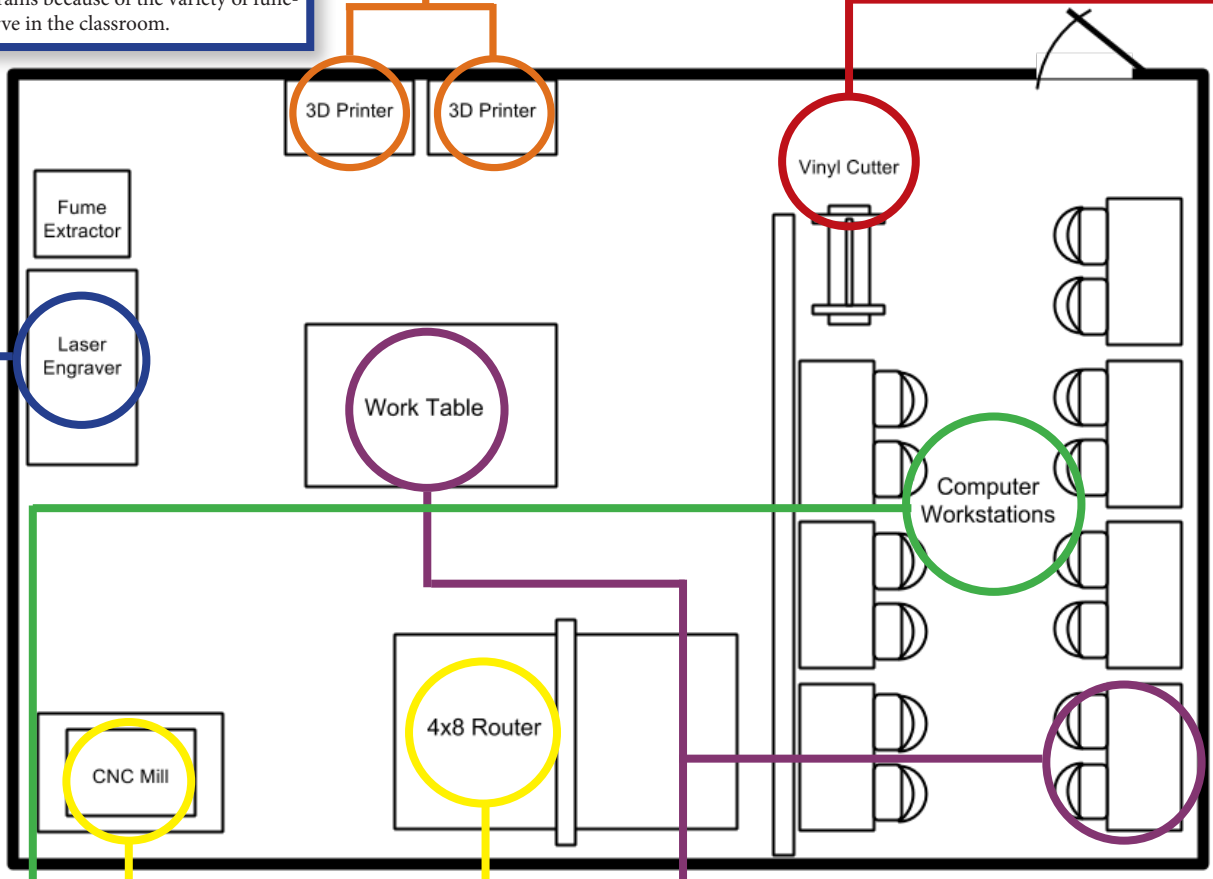
1

Additive Manufacturing
With the addition of 3D printing to a FabLab, you can design small scale models for larger projects, reverse engineer parts, or manufacture parts to build ideas from scratch. The flexibility of additive manufacturing is a useful tool that also provides job ready skills.

2

Vinyl Cutting
Cutters can be used to layout designs and create labeling. The vinyl cutters produce crisp, eye-catching graphics with speed and precision. Use your cutter to create signs, decals, labels, stencils, and logos.

3



Subtractive Manufacturing
CNC automation enables you to design a part on your computer and reproduce that design quickly using the router or milling machine. Using a CAD/CAM package like Mastercam, a CAD drawing can be turned into toolpaths that instruct the machine router. The program produces the G-Code that tells the machine where and how deep to cut. This technology has become more advanced and now can be used on tabletop milling machines with rotary fixtures that allow 360 degree routing. Available with a wide range of tooling options, these machines can be used to fabricate a variety of materials with great precision.

4 5

Furniture
Faculty, administration, and manufacturers collaborate to design and implement the highest quality lab space possible. From custom designed lab solutions to classroom layout, they create a multifunctional space for instruction with flexible workspaces. Classroom layouts can also be designed around STEM-related activities or specific program goals.

6

Software
Use your CAD/CAM software to work with parts and do numerous tests prior to production. A FabLab can venture into new ideas and try to solve problems in new, different ways. This is the first step in working with a variety of materials to make more complex parts suited for specific tasks. It enriches the whole learning experience of creating in the FabLab.

7

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The demo FabLab shown includes:

1

The Epilog Laser

When you are looking at creating projects, Epilog's top-of-the-line laser systems provide you with the tools you need. Epilog offers a wide range of laser tube wattages and table sizes to accommodate your budget as well as your students' creativity. Epilog Laser Engravers offer Permanent Job Storage, Air Assist, Auto Focus, Integrated Vector Grid/Vacuum Table, and more!

2

The Afinia 3D Printer Package

The Afinia 3D Printer comes fully assembled with easy-to-install software. The Afinia is both portable and affordable. This package includes a 2 year warranty and 6 spools of material to get you up and running in no time! The Afinia 3D Printers work with multiple design software packages including SolidWorks and Inventor.

3

The Roland Vinyl Cutter

The Roland Vinyl Cutter is a high-quality cutter. The cutter series comes with Roland CutStudio software and it uses an optical registration system that facilitates accurate contour cutting. Combined with the plug-ins for CorelDraw, the GX Pro series will make accurate cutting designing even easier. Materials: vinyl, paint mask, reflective vinyl, heat transfer, and more.

4

The Intelitek Benchmill 6100

The Intelitek Benchmill 6100 benchtop CNC mill combines the advanced capabilities of Subtractive Rapid Prototyping (SRP) system with the ease of use of a milling machine to provide product engineers and designers with one powerful, yet affordable, 3D Milling device. The optional tool changer will allow students to experience programming multiple tools for more complex machining.

5

The Intelitek ProRouter 2100

This machine is an excellent entry-level machine that allows the user to start with the basics and build on it as the program grows. The ProRouter is the perfect option for small to mid-size shops and will meet all demanding applications at a very low price. The 4x8 work area can accommodate any job with high accuracy and detail. Versatility and reliability make the ProRouter one of the most popular CNC routers in educational settings. **(CNC Plasma also available!)**

6

Interior Concepts Furniture

Maximize your space with our furniture that can be modified by the inch and is backed by a lifetime warranty. Interior Concepts takes pride in designing and manufacturing furniture for fast-paced and technology driven environments like schools, colleges, and office spaces.

7

SolidWorks

Mastercam

Software Options

SolidWorks is a comprehensive 3D design solution that includes powerful simulation, motion, design validation tools, and more!
Mastercam Educational Suite offers the full power of the world's #1 CAM system in one comprehensive suite. Students learn many machining methods from a single, easy-to-use program.
CorelDraw is a graphic design software that offers a content-rich environment

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Contact us today to customize your lab with these FabLab products and more!

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