Getting Involved

Classes

Students in many of EHOVE's programs are using the Fab Lab equipment to help students easily complete class projects in ways that were previously too difficult or time-consuming.

Personal fabrication classes are also offered for EHOVE high school and adult ed students to introduce the machines and processes through hands-on learning projects. The students will learn to conceptualize, design, develop, fabricate and test objects, and ultimately complete a final project of their own design and choosing.

Clubs

Fab Lab Innovation Club (FLIC) is geared toward kids in grades 5-8 and is meant to expose them to technology and generate interest in engineering through fun, educational projects. Members design, fabricate, assemble and text everything from go-karts to rockets.

Camps/Events

Events are hosted throughout the year to boost interest and participation in Science, Technology, Engineering and Math (STEM) education.

Community Resource

The public is invited to use the Fab Lab to work on their own project. Great for students, inventors, businesses, entrepreneurs and pretty much everyone else! Hours vary each month, so please see the latest schedule online or give us a call.

Where in the World?

See the growing list of Fab Labs across the globe at www.EHOVE.net. Click on the Fab Labs around the world link.

FAB LAB EHOVE

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EHOVE Career Center's

Fab Lab

What could YOU create?

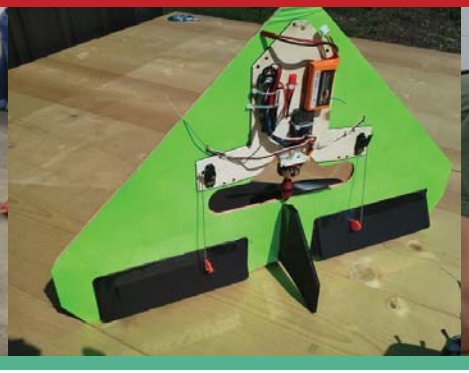
What is a Fab Lab?

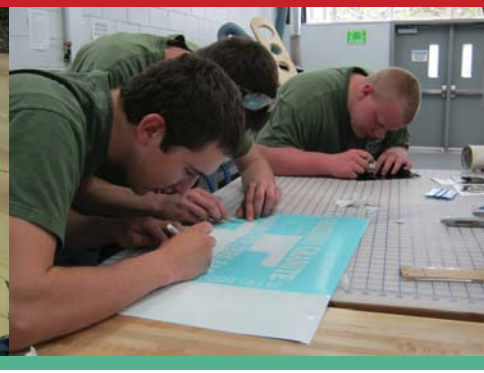
A Fab Lab (Fabrication Laboratory) is a small-scale workshop. It is generally equipped with an array of flexible computer-controlled tools that cover several different length scales and various materials, with the aim to make almost anything.

Fab Labs can be found all over the globe and can help people convert ideas into objects. They allow people of all ages and backgrounds to create, invent, experiment and learn.

In collaboration with the National Science Foundation in Washington D.C., and the Center for Bits and Atoms (CBA) at the Massachusetts Institute of Technology (MIT), the Fab Lab program was started in 2001. They were exploring how information relates to its physical representation (blueprint to prototype), in the electronic age and how local communities can be powered by this new technology.

Design - Innovate - Invent





Epilog Lasers

Lasers can be used to cut through and etch many materials. Our 40 and 60 Watt Epilog lasers have an 18" x 24" bed, and can cut some materials up to 1/2" thick. Used for small-scale prototypes, multi-part assemblies, and basically anything a scroll saw could do and more. Common materials: acrylic, luan, solid woods up to 3/8", paper, cardboard, etc.

Techno CNC Machine

This 48" x 96" machine is essentially a computer-controlled router. It uses conventional cutting bits to cut designs made in a computer program. Used for full-scale production and prototyping parts. Common materials: any wood, acrylic, polycarbonate, foam, etc.

3D Printer

These rapid prototyping machines print physical objects by extruding layer after layer of ABS plastic. Unlike conventional subtractive machining, this is an additive process, so no cutting is involved.

Vinyl Cutters

We have a 24" Roland vinyl cutter which can cut intricate designs into flat-adhesive materials. It can be used to create anything from die-cut stickers, to silkscreen masks, to flexible circuit boards. Our 54" vinyl printer/cutter can do the same, but it can also print on the material with waterproof inks.

FAB LAB EHOVE

See the latest photos of what's been made by EHOVE students and area residents at www.EHOVE.net/FabLab!