



January 2022



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January 2022 Newsletter [About CVM](#)

- [Community Maker Projects](#)
 - The Maker Store
- [Member Made for the Holidays](#)
- [Tool of the Month](#)
- [Project of the Month](#)
- [Members Only](#) **Please Read!**
- [Volunteers](#)
- [Support our Mission](#)

Fun project for the Community:

Over the years, there have been a lot of projects made for the makerspace, ranging from our large CNC machine, work benches, programming our sign in system, the Zamboni, and many more. Our members wanted to build an augmented reality sandbox, which went to to the grout museum as an interactive display. This year, some of its parts are being re-used to build a 3d scanner.

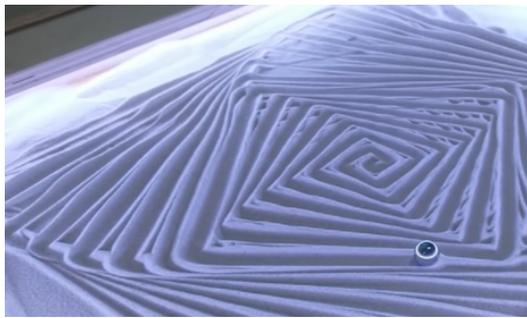
-Our Store: Over time, we have accumulated a stock of Raspberry Pi's, Arduinos, ESP boards, power supplies, pi cameras, a huge variety of sensors, steppers, dc motors, connectors, cable wrap, wire and much much more. The store contents are available to subscription members for free because of donations and by following a take a penny leave a penny approach.

The Makerspace has several rolling white boards, and one definitely needs a v plotter. These open source projects are relatively simple, well documented and we have all of the parts, the 3dprinters, and the experience. We will be starting this project in the next few weeks. If you have interest in participating or building your own, email: info@cedarvalleymakers.org



See it in

action: <https://youtu.be/ZYhNmEKUQKA>

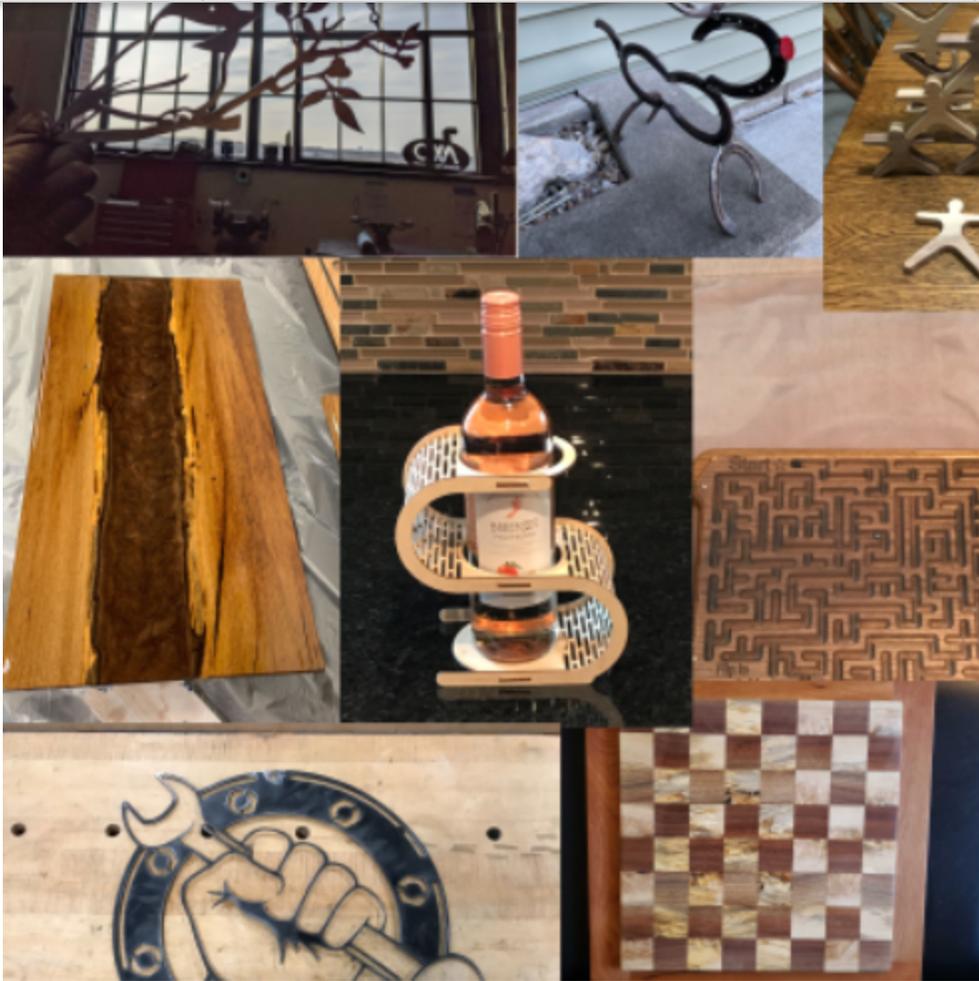


We still have a bag of white sand left over from the augmented reality sandbox build, plus all of the necessary parts, so we have to build one of these. It is a fun demonstration of cartesian CNC, and a fun skill builder project.

See it in action: https://youtu.be/Lng_AsmfBfU

There are 100s of other open source projects, but maybe you have your own interesting ideas. Share on our Facebook page, or come into the space and get started

What we made for the Holidays



Amazing gifts made in the space over the holiday season. Follow a link for a video presentation, with more detail. <https://youtu.be/qpj1H9YVNdo>

Tool of the Month

Tool saving detector

The tool this month seems boring, but very important when making projects from reclaimed wood. You just never know where that wood has been, and it is not at all uncommon to find nails, screws, and other hardware embedded into the wood, which can cause damage to

you can safely turn the pile of reclaimed barn wood into the most incredible craft.

Pictured Right is the metal detector found on top of our black tool chest



Pictured Above: Todd Prussa made a nice set of Adirondack chairs from an old stack of barn wood that was donated to the makerspace and he did it without breaking tools.

Fanny Packs



Above: Fanny Pack sewing skill.

Jamie Mansfield bought a sewing machine spring 2020 after failing to

sewing you use fabric, and came up with a design for the chair pad, made a prototype from an old curtain, and then made the final version". Once that project was completed, Jamie continues to work on his skill making fanny packs. The fanny packs are from a pattern (called "bringing the fanny pack back") bought and downloaded on Etsy, the pattern seemed simple enough to make, and small enough to print from a desktop. Jamie estimates auto damage for work and had access to airbag material, destined for the landfill, which he used for the first fanny packs. "I've made a few more bags from some garage sale corduroy, which seem to be the favorite. Another friend suggested I add a fanny pack strap to a bananagrams game, which turned out pretty cool too."

Pictured Below: Jamie's first sewing project





Above: Jamie using the Singer Patcher to sew through three layers of nylon webbing. Like butter!!



Subscription Members. Come in Tuesdays and Thursdays evenings 7:00 - 9:00 for project and equipment support, or other times by appointment. Design tips and tricks. How to set-up and cut your first job on the CNC router or plasma cutter, and more. Please let us know you are coming on slack, or by e-mailing info@cedarvalleymakers.org. If it has been a while since you have been in the space, ask for another tour, or come in and learn something new.

Things are always changing changing for the better.

Add On Storage Space now available: Longer term and large project storage s now available as an add on to your subscription membership. Mark out a spot and make it your own for around a \$1.00 sq ft per month.

Short term active project storage will continue to be free. Active project means you are working on it at least once in a two week period. Project labels are available and should be used to mark

will be going to the top shelf jail in the add on storage as of January 1.. On Feb 1, materials will be considered donated and available for member purchase.





Pop Cans!!! We keep finding pop cans in the trash. Please put them in the recycle container by the double doors. We save them for Robotics team can drives.

Updated Member Checklist - Last Person in the shop:

1. Air compressor powered off
2. Laser vent fan turned off
3. Central Vac is not running. Will run for 60 seconds after the last tool is powered off, or until remotes are turned off.
4. Doors are closed
5. Fire lanes are clear.

Thank You for Your Membership!!!

Volunteer



Something for all talents and interests at CVM:

- Cleaning
- Planning
- Repairing
- Installing
- Organizing
- Teaching
- Mentoring
- Marketing
- Administration

provided in part by Black Hawk Gaming.

Volunteer Opportunities:

- Attendants- Be a second in the shop, and support others as they learn new skills, while learning fun stuff yourself.
 - Marketing: Share the space with others on your social Media. Schedule us to speak at your community group meeting. Schedule a field trip to tour the space, or organize a make activity as an educational event at the makerspace.
 - Program Coordinator - Create, and or teach others maker skills by organizing and leading workshops. Workshops can be set-up to cover cost of materials and compensate Instructors.
-

Q4 2021 Board Meeting: Scheduled for Thursday Jan 13 @ 6:30 - 8:30: Board meetings are open to everyone with both in person and zoom options.. If you would like to become involved with the makerspace operations, please join us. rsvp by e-mail: info@cedarvalleymakers.org

[The Board of Directors](#)

Our Mission: To promote collaborative learning, creative design, and manufacturing for people of all ages and skill levels. We provide education by giving access to tools, machines and training inside our makerspace and by promoting and planning educational events that can forward scientific thinking, learning and entrepreneurial spirit for all members of our community.

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