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August 2021

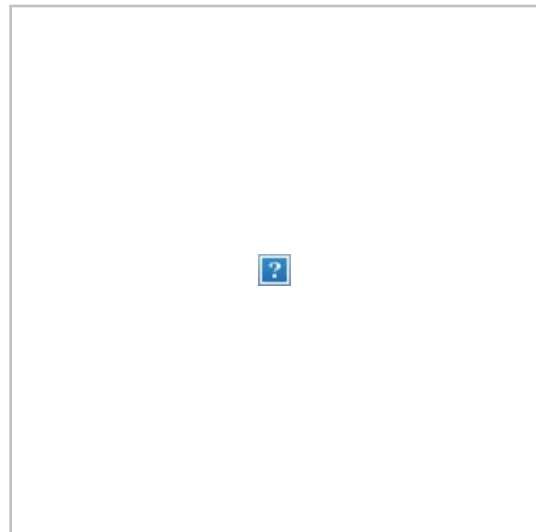
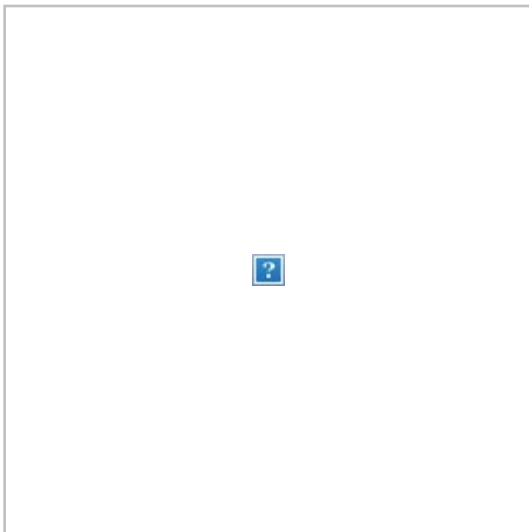
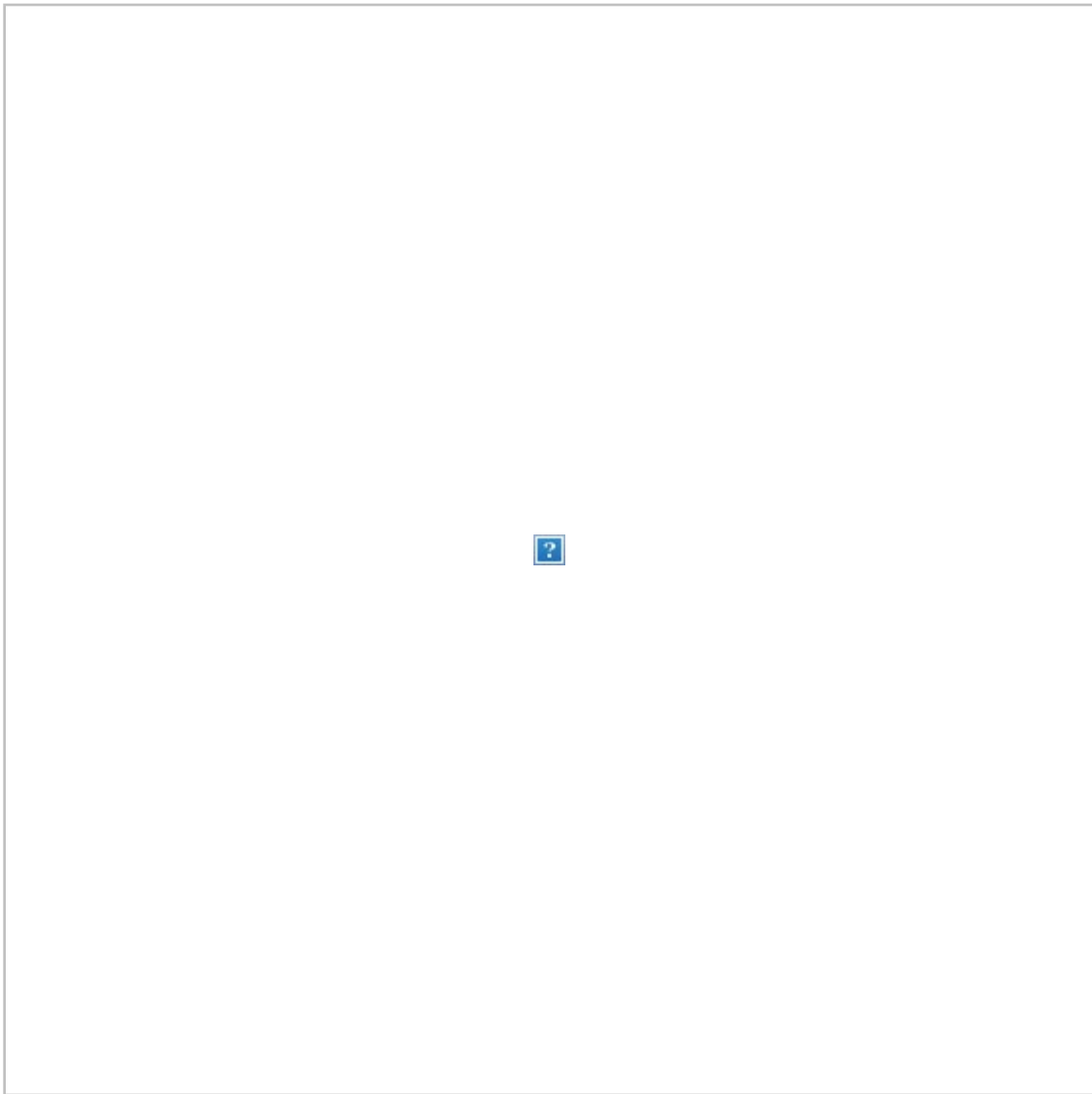


## July 2021 Newsletter

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Last weekend, we had a lot of fun making making a lot of paper rockets at the FFA 4-H STEM Fair. A delegation of makers set up a station at the fair for kids to fold paper rockets and launch them as high as 200 feet. The rockets were made with help of laser cut paper and 3d printed assembly jigs. The kids were encouraged to make improvements to their rockets to get the best flights possible, and several design changes were explored. Groups of up to three were able to launch at one time. Thanks to Aaron Howard for making launchers, Nate Hoffman, Mike Hoffman, and Todd Prusha for volunteering at the build and launch sites.



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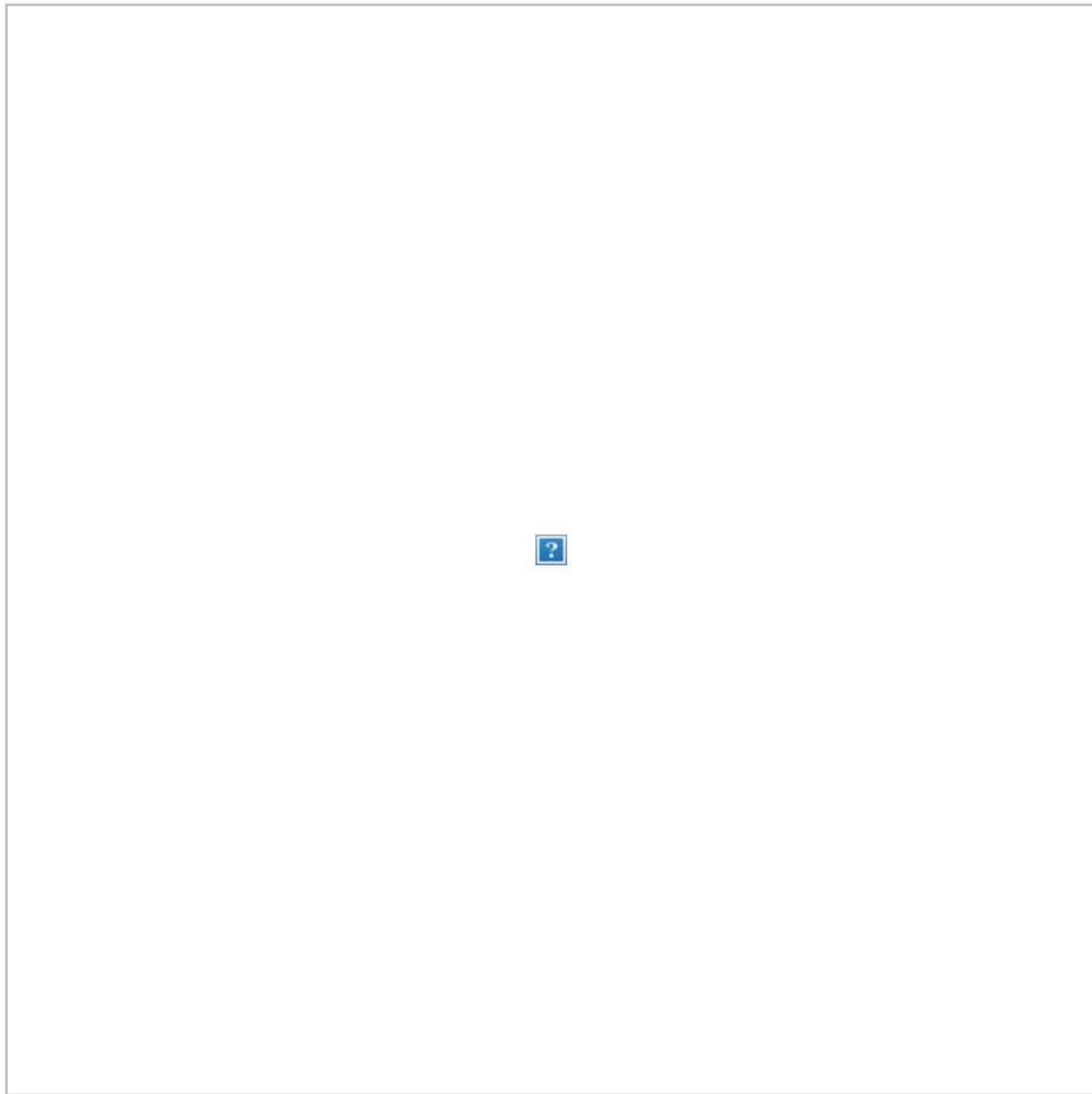
*Work Shops and Events:*

[Check the Events Page](#)

Come to our recurring series on Tuesdays and Thursdays 7 - 9. We will support digital,

microcontrollers, and maker processes, such as 3d printing, laser cutting, and CNC. Otherwise, subscription members know there is always a second in the shop during scheduled events.

## Robot Design Workshop



There are a few spots left in both the morning and afternoon sessions of the robotics design workshop. Dates: August 9th-13th, Sessions (10:00 - 12:00 **OR** 1:00 - 3:00)

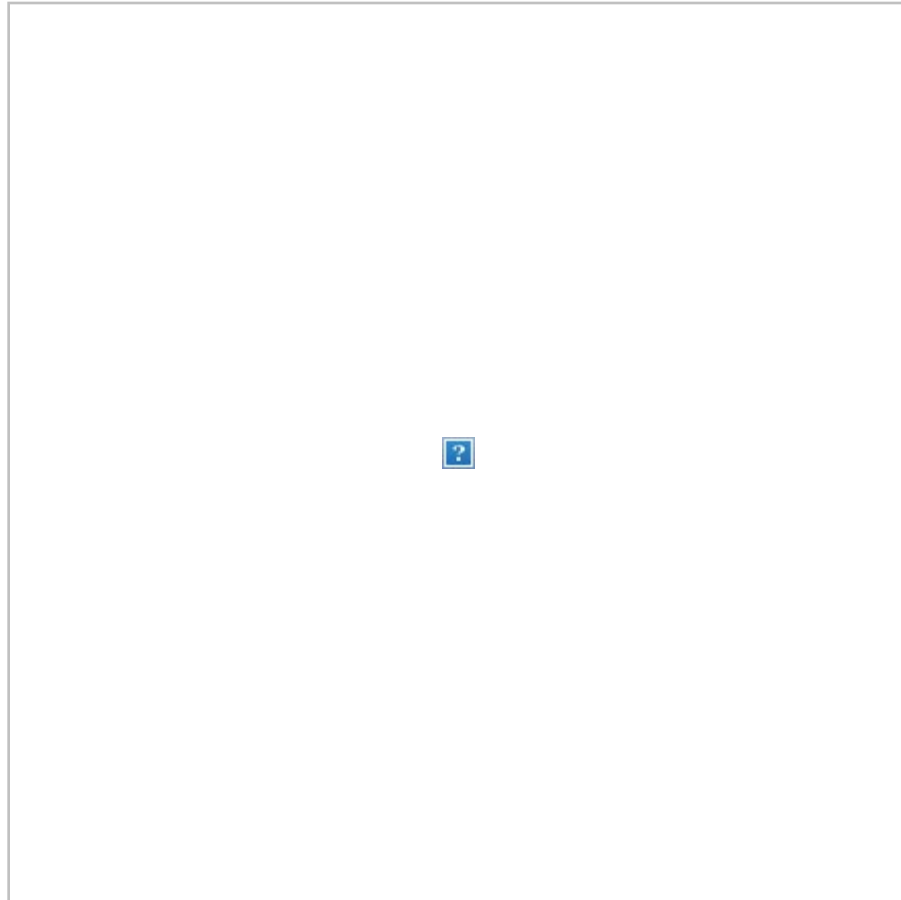
Workshop Description(Ages 12 - 16):

Build your design and electronics skills by making your own CupBot. Using the design process, you'll build and enhance your very own robot, all while using resources available in the Cedar Valley Makerspace. [Register on our events page](#)

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# Tool of the Month

The best sewing machine ever made?



We have a refurbished Singer 201-2 with the potted motor in the maker space. Used in the Rolls Royce factory to sew the leather upholstery, it is still considered one of the best sewing machines ever made? Come use it on a project and see for yourself.

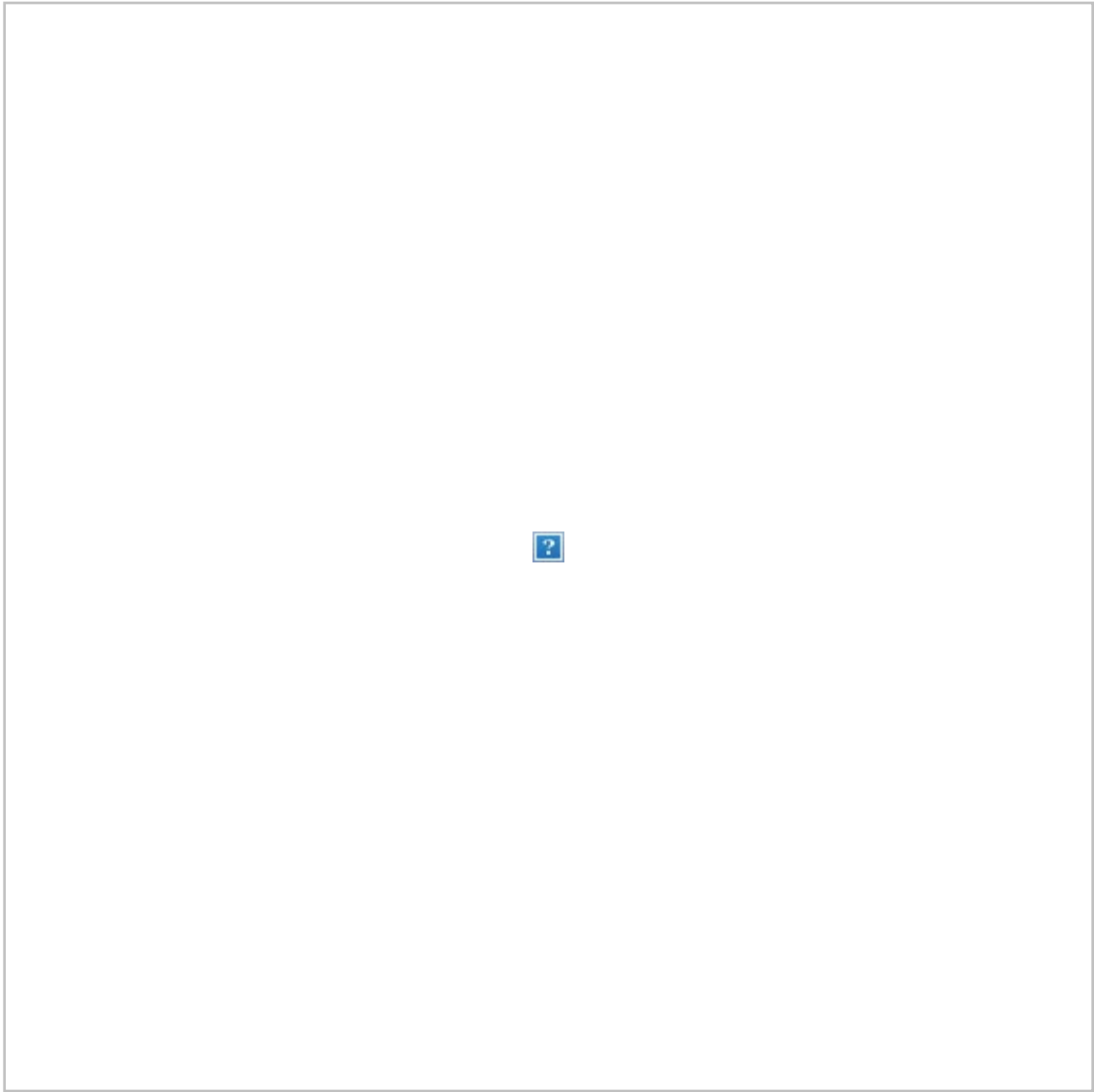
[Here is a video that will be added to our member resource page.](#)

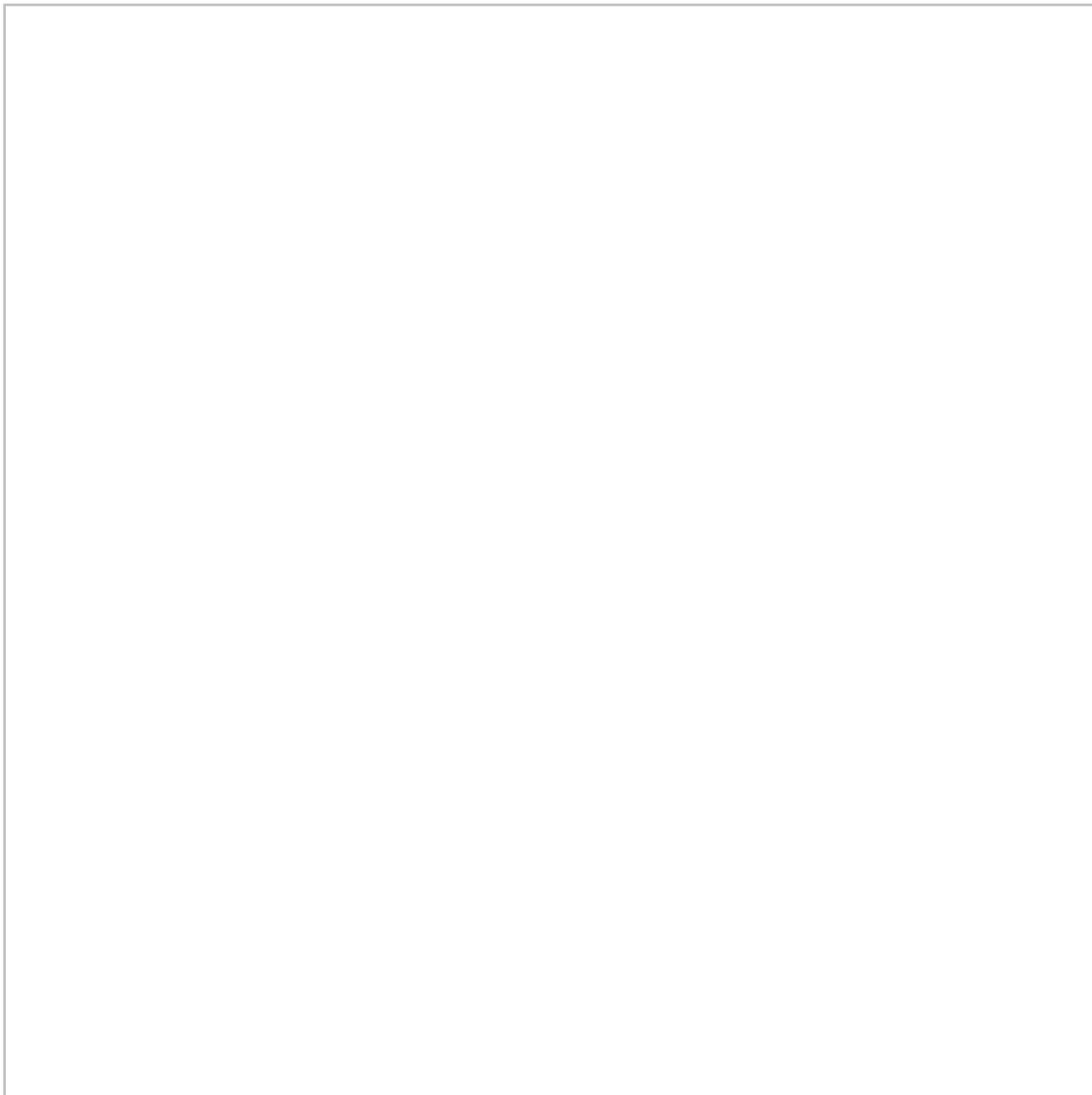
If you think grandma has one. [Here is how you know.](#)

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## Project of the Month

Display Peg Boards





Members Annie and Brandon Alvarado built giant display pegboards out of sheets of 6'x16" plywood.

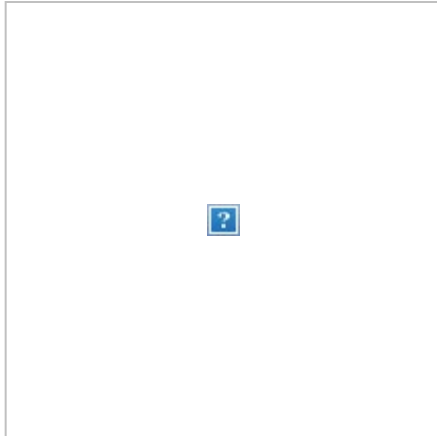
"We measured out a grid of holes, evenly spaced from the edges and 5" apart from each other. After using a 1" bit on the drill press to drill all the holes, we attached the panels in sets of two, resulting in 6'x32" panels. The panels were attached in the back with pieces 2"x1"x30" wood, which did double duty of holding the panels together and giving them a little space from the wall we hung them on, which lets the pegs be inserted securely. We also sanded the boards after drilling and applied a danish oil to give them a little bit of finish. For the big pegs, we bought 1" round, 48" long dowels. These were cut down into 9.5" segments and sanded some to make one end a little bit tapered so they would fit in the holes. The shelves are 10" pine boards, cut down to various dimensions to match the spacing between the holes/pegs. This display is super customizable and was pretty easy to build!" - Annie Alvarado

You can see these shelves in action at Pretty Good Co.! Pretty Good Co. is a

letterpress print shop plus a stationery & gift store in downtown Waterloo. They sell greeting cards, notebooks, art prints, and all sorts of goodies as well as doing custom printing for your personal or business needs. Find them at 310 West 4th St. in Waterloo or online at [www.theprettygood.co](http://www.theprettygood.co)

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## Fabulous Lab For Free



If you or your community or interest group would like to schedule an event or meet in our Fab Lab, please inquire at

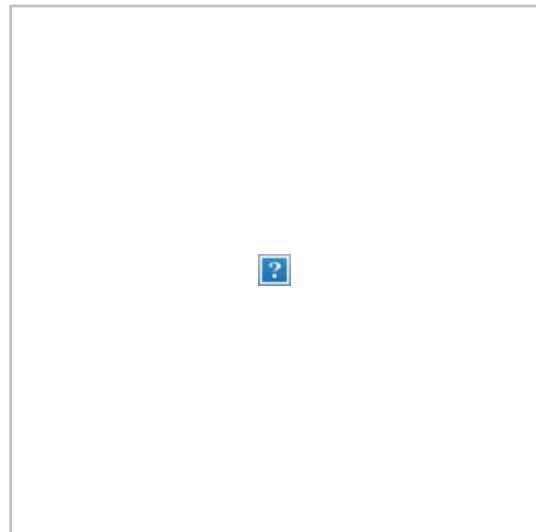
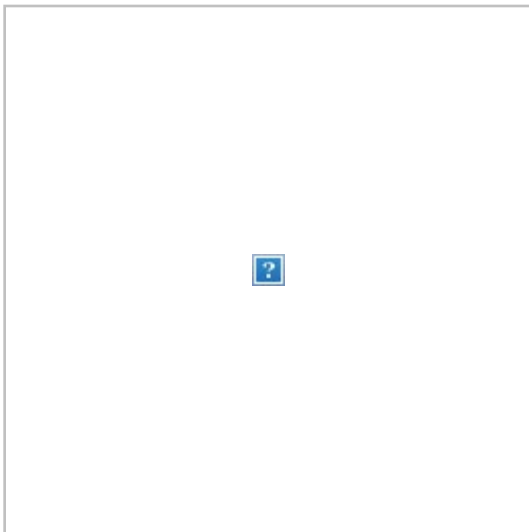
[info@cedarvalleymakers.org](mailto:info@cedarvalleymakers.org).

Robotics Cubs, Rocket Clubs, Scouts and FFA, are just a few of the groups that have scheduled meetings at CVM.

FLL, FTC, and FRC Practice Space is available for the 2021/22 Seasons

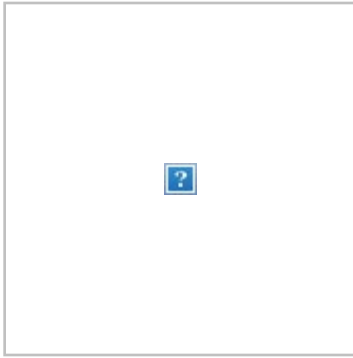
The space has been re-organized with all of the digital software and tools to make your groups next S.T.E.A.M project top notch. Donations and community support make the space available no charge.





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**Important!! Please read! ALL!!**



**We are around 85 members, but there is relatively light traffic through the shop on most days. Please spread the word, allowing us to grow, purchase new tools, and pursue our mission. We have cards, and flyers available to share. If you would like to volunteer, we could use your help.**

**Fully vaccinated** *are no longer required to wear masks at the Cedar Valley Makers in accordance with the CDC and local ordinance. COVID cases are on the rise across the country, so this is subject to change. In the mean time, we recommend bringing a mask for times when you cannot socially distance in the space, and especially around youth that cannot yet be vaccinated.*

**Cleaning Up Better than You Found It -** Please remember that CVM is run by a passionate group of volunteers, who have no desire to be a cleaning service. If each member does less than their part, the mess piles up quick, volunteers get mad, and the very existence of the makerspace can be questioned. **DO YOUR PART!!**

**Second person in the shop is not a suggestion!!** - Clearly stated in the member

agreement, level 2 and level 3 tools require a second person in the shop. This is an insurance requirement and is absolutely mandatory. Ways that CVM facilitates:

- Qualified second person includes a member or guest capable of dialing 911. We have WIFI available in the shop. Guests assisting members in the shop must have a release on file and the sponsoring member is responsible for their guests safety.
- CVM Slack Channel We have a slack channel where members can communicate and organize meet-ups at the space. If you have lost your invite, email [info@cedarvalleymakers.org](mailto:info@cedarvalleymakers.org) to request another invite to join us on slack.
- Proximity App that allows you to schedule time in the shop, and on tools, which also allows members to see if a second will be available
- Tuesday, and Thursday 7-9 Support hours. [Check events](#) to make sure there is a volunteer scheduled for the evening.
- Saturday 10:00 2:00 attendant in the shop. This one is a target, but depends on volunteers, and also member interest, so check the schedule. If you would like to volunteer to be an attendant for a set schedule, you will be invited to the

**volunteer appreciation day.**

- Lots of great Level One tools, which can be used when you are alone in the shop. **PRO MAKER TIP:** Have several level one projects/tasks that can be completed when you don't have a second.

**Level 3 tools require an orientation before use. The intent is not to make you an expert, but to ensure that you know the bare minimum necessary to minimize the risk of personal injury, and damage to the equipment. If you do not use the equipment often, consider a refresher orientation. There is no charge, but donations to CVM are appreciated. To schedule, email [info@cedarvalleymakers.org](mailto:info@cedarvalleymakers.org).**

Failure to follow makerspace rules can result in termination of your membership in accordance with the membership agreement.

[Proximity App](#) The proximity app can be downloaded to your smart device, and allows scheduling time in the space and access using digital keys. Links to the app and more detailed instruction on entering a pin are in the [access control procedure that is linked](#). Doors can be unlocked for community groups and events for scheduled dates and times. To schedule, contact: [info@cedarvalleymakers.org](mailto:info@cedarvalleymakers.org)

**Member Resources** - We have been updating the [member resource page on the website weekly](#) with guides, tutorials, and manuals. We also have a dedicated group of volunteers that are all too happy to give advice. If you are ready to start a project and would like some assistance, please do not hesitate to ask. [info@cedarvalleymakers.org](mailto:info@cedarvalleymakers.org)

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## Support Cedar Valley Makers

It is amazing what a bunch of dedicated volunteers can do, but we only scratch the surface of CVM's potential. With your support we can do much more:

- Become a paying maker space member with a recurring monthly membership of \$40.00 and get full access to the shop and tools 24/7.
- Sign up for a community membership and volunteer to mentor, or help with workshops and events.
- If you have less time than money, consider becoming a friend of CVM with a tax deductible donation. Our goal is to have 150 friends willing to give us a small recurring donation. If that is you, support us through the [Community Foundation of North East Iowa](#)...

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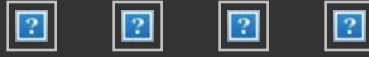
Everyone is welcome to get involved. e-mail [info@cedarvalleymakers](mailto:info@cedarvalleymakers) and come to our next board meeting August 4, 2021 6:30 - 8:30

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### [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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