



NEWSLETTER

December 2022

"The MakerBarn is a member-driven family-friendly makerspace that exists to provide a place for our members to envision, design, and realize creative projects. We are dedicated to building a creative maker community among our membership and the community at large."

The Move is On !! Volunteers Needed

This weekend we will complete a project we have been working on since April, the consolidation of The Lab and The Shop into a single building. When we are done we will occupy the entire 7,300 square feet of the North building at 28030 FM2978.

This is a big step for The MakerBarn, and it would have never happened except for the loyalty and generosity of our members. So, congratulate yourselves, you deserve it. Things like this don't come easy. The weekend before Thanksgiving we took on the task of removing all the stuff we didn't want, and gave the place a thorough cleaning. First a charity resale shop came by and took many of the items they could resell or give to folks that need it. Then a fellow and his son came by. They sell metal for recycling. They cleaned out an enormous amount of stuff. Then we got a 20-yard dumpster and filled it to the brim. We still had more stuff to get rid of it, so we ordered another dumpster and almost filled it. Now the place looks great!

So, what is this doing for us? Bringing the Lab and Shop together will help bring the membership closer. Not too close, as we are going to have 2,400 more square feet than we previously had. We have already built a nice machine shop and classroom in the new space. We will also have a small CNC Machine shop. We will have a bit more storage space and room for some new machines. And, we will have a small, but complete kitchen.



We will be closing the lab on Friday December 2nd and reopening the lab at the new place on Monday December 5th. On Friday we will be moving and organizing some of the smaller items. **The main move will be on Saturday starting at 9:00am.** All hands on deck! This is a great time to help out The MakerBarn and meet members you have never seen. I don't think it will be too difficult, but please be careful and have fun. Have a great time over the holidays. Don't forget about the move this weekend and help us out if you can.

Thanks,
George Carlson
President, MakerBarn

Making a List, Checking it Twice...

As always, we are looking for ways to expand our capabilities.



One item we plan to acquire is a **60-Watt laser dedicated for rotary use**. Both types of rotary devices will be permanently installed in the machine. One type is the lathe-type. This rotary has a chuck that is used to hold an object and rotate it while the laser engraves it. The lathe-type works well for mugs and other objects that are not completely round (mugs have handles that stick out). The other type of rotary uses rollers that the object sits on. This is great for tumblers and bottles because it is much simpler to setup.

And here are a couple of other things we would like to add to our makerspace as well:

An item that we can probably find on the second-hand market is a **ceramic kiln and slip casting molds**. We have a good space (outside of the air-conditioned space) that we can install the kiln. Keep on the lookout for this item.

Another machine that has been discussed is a **Long Arm Sewing Machine**. I hope I got the name right. This machine is used for sewing quilts. They are eight to ten feet wide. The material is rolled back and forth for the Y-axis, and the machine head is moved right and left for the X-axis. You woodworkers might think of using a free-hand router to cut patterns on a



sheet of plywood. Just like the CNC router, these machines can also be controlled by a computer, now that's cool! If anyone sees one of these machines on the used market, shout out, and let someone on the executive committee know about it.

It's great to have space for all this stuff and isn't it also nice that even if you personally would not be using it, it is there just in case you ever wanted to learn about how various things are done.

4th Qtr Potluck Success!

Our Fall quarter MakerBarn potluck dinner was a big success!

In addition to delicious food, members shared what they had built and what equipment they had used. It was another great evening of fellowship and information.

And for those who like to plan ahead, our winter potluck dinner will be held on **Sunday February 12 from 4:30 PM until 6 PM.**



MADE AT MAKERBARN!



George Carlson designed A pair of 90° takeoffs for the lasers in the new Lab with Fusion 360 and 3D printed. They convert the 8” trunk line to a 6” line for the laser.

Joe Foster suggests you try to guess what this photo is? He made these in the metal and machine areas of the Barn. They are not conning towers for his underwater fleet of submarines. He promises to give us a photo of the finished solution in January.



MADE AT MAKERBARN!



John Buckley revised his addressable LED Christmas tree this year by adding 2 1/2 feet of structure to bring it to 12 1/2 feet overall. The tree uses 1050 LED lights called "pixels" and is controlled using xLights software.

MADE AT MAKERBARN!

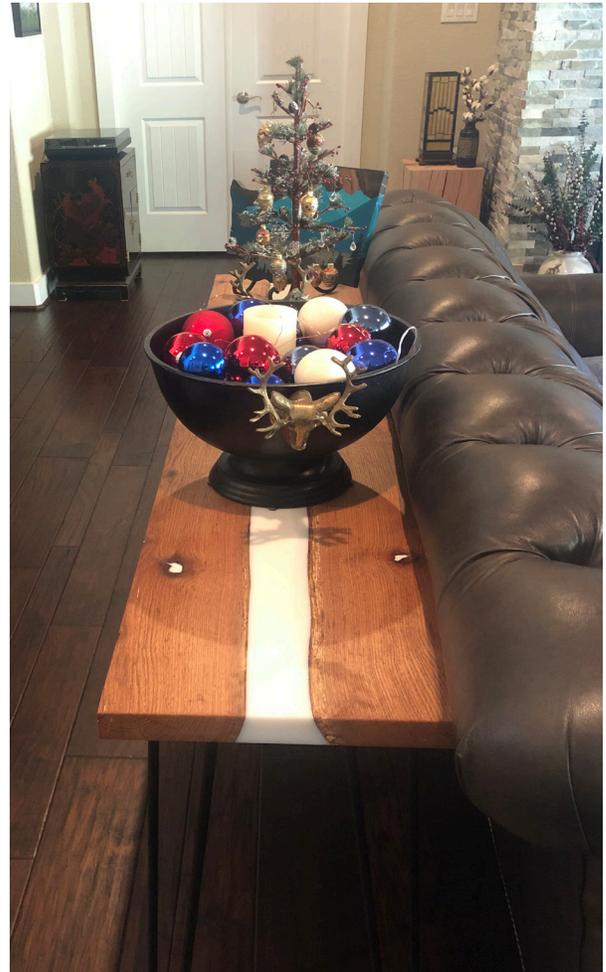
Joe Foster made a door security bar for his church. It has been broken in to numerous times (note the damage around the door). The security bar was built in the metal working area.



Don't Forget, Volunteers Needed! This Saturday December 3rd starting at 9:00am. Help us move into the new Lab. Thanks!

MADE AT MAKERBARN!

Peter Syrnyk made a Red Oak Chesterfield River Table. The oak tree was taken down on his property. It was slabbed and then dried for over a year before he started working on it. The cutting and planing was completed at the MakerBarn, and the white epoxy pour was done in his garage along with the finishing sanding.



Are you Manager Material?

The MakerBarn runs on volunteers and you if you have been an active member for two months or more, we would like you to consider becoming a Shop MakerBarn Manager. MB Managers work 3-4 hour shifts during which they supervise the general operation of the Shop keeping a close eye on safety and noting any maintenance issues that arise. They also devote a fair amount of time to general cleaning of the shop floor and emptying the dust collection and trash systems. They give prospective members tours and update MACS access cards as needed for members. **Oh, and they enjoy 24/7 access to the Shop!**

If the Shop manager role sounds interesting to you, contact Jim Barron via Slack. Thanks!

MADE AT MAKERBARN!

Joe Foster made side rails for his church utility cart.

He made the stake pocket in the metal working area. These were fabricated rather than purchased because commercial ones were too large and he wanted to use existing utility cart bolt holes.



The rack stakes were made in the wood working area.

The protective rail on the upper edge was cut and drilled in the machining area.

MADE AT MAKERBARN!

Rodney Garza built a Bookrack for his GrandDaughter. It was made of Maple Ply, Edge Banded, then painted Polar Bear White. No screws used, all loose tenon joinery

CNC was used to cut a template for the curved pieces.



Members, please remember!!

Members - PLEASE remember to clean up after using any equipment in the Shop or the Lab. Pictured here is equipment that was NOT left in acceptable condition.

Also, if you leave anything in the Shop or Lab you MUST label it with your name, date and when you will be returning to pick it up.



Items left without ID may be moved or disposed of at the manager's discretion!!

Meet The Area Managers

	<p><u>WOODWORKING & CNC</u></p> <p>Jim Barron has lots of experience with woodworking and CNC. He holds occasional CNC classes that demonstrate the Vectric VCarve Pro software we use. Jim can check you out on woodworking and CNC tools at the Barn. Contact him via SLACK.</p>
	<p><u>LASER PRINTING</u></p> <p>Greg Radliff is an artist and expert at using Laser Cutter and Engravers. Greg can show you the LightBurn software we use and can check you out for use of the Laser printers in the Lab. Contact him via SLACK</p>
	<p><u>3D PRINTING</u></p> <p>Jody Cochran is a graphic artist with deep experience in 3D printing and other graphics tools. Jody can show you slicer and other software used with the 3D printers. Contact him via SLACK.</p>
	<p><u>METALWORKING</u></p> <p>Bryan Manka is area manager for metalworking which includes the metal mill and the metal lathe at the Barn. He can check you out for use of either of these machines. Contact him via SLACK.</p>
	<p><u>ELECTRONICS</u></p> <p>Raul Garcia is area manager for electronics. More of a fixer than designer, but willing to help and learn together. See Raul for anything related to microcontrollers, electronic devices or other electronics related projects. Contact him via SLACK.</p>
<p>Daniel Claybaugh</p>	<p><u>WELDING</u></p> <p>Daniel Claybaugh is area manager for welding</p>

For New Members

WELCOME to the wonderful world of making!! We know you'll come to love this place as much as we do. First and foremost, this place is about the people. We would like to encourage you to see yourself as more than just a member. We are a community. Because we don't have any employees, we rely heavily on our community to keep things running. So please join in, pitch in, and get involved. Ask lots of questions. We are a really friendly group and love to help one another. The MakerBarn is a fantastic community of makers and we are glad you are here!



Maker Barn: The Shop
28030 FM 2978, Suite 204 77354
Phone: 832-663-6390



MakerBarn: The Lab
28030 FM 2978 Suite 101 77354
Phone: 832-663-6377

MakerBarn Directors:

George Carlson, Director and President
Jeanie James, Director
Greg Radliff, Director

Executive Committee:

Kathy Barbieri - Procurement and Acquisitions
Jody Cochran - Secretary
Raul Garcia - Member at Large
Jim Barron - Membership
Matt Folsom - IT
Doug Green - Web Site
Ashley Dickson - Member at Large
John Buckley - Newsletter Editor

Area Managers: (Guru or Custodian)

Woodworking - Jim Baron
Lasers - Greg Radliff
3D Printing - Jody Cochran
Metalworking - Bryan Manka
Electronics - Raul Garcia
Welding - Daniel Claybaugh

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