



# NEWSLETTER

## September 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."*

## Move Delayed for Now

First, I want to say thank-you to John Buckley for organizing last Sunday's goodbye potluck get together. C.E. will be leaving and moving to Colorado. We will all miss CE and wish him all the best. We must have had 30 or more people attend. Everyone had a good time. This type of event helps strengthen The MakerBarn and bring members closer together. We will have more events like this in the near future.



Sorry, I don't have any new news about the move or the arrival of the new CNC milling machine. The space in suites 201 and 202 must be cleared out and our landlord is having a tough time finding a new home for it.

Langmuir Systems, the manufacturer of the CNC mill, has been publishing some assembly videos on YouTube, it looks like it will take about 2 weeks to assemble the machine. The machine uses concrete to stabilize it, so the concrete needs six days to setup and dry before it is coated with epoxy which takes a few days to cure. Nothing good comes easy. They are supposed to start shipping systems this week, hopefully ours will be ready.

Although Halloween is eight weeks away, it is not too early to start working on ideas for decorations and costumes.



Now that the shop will be cooling down a bit, and we have a little more space to work with, be sure to come by and get started on a maker project.

George Carlson  
President, MakerBarn

## 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.

## Classes at MakerBarn - Joinery and Sheet Metal



### Joinery Class

CE Raum taught a class on joinery that was well attended and enjoyed by everyone. The special sled, marking templates and spacer that CE created for joinery will become available at the Shop.

You can find more pictures of the nightstands, including a closeup of the joint at:

<https://photos.app.goo.gl/GdvKGPGGzhzL-RYg98>

Also David Figueroa did a wonderful job capturing images from the class at:

<https://u.pcloud.link/publink/show?code=kZt-BhYVZ8OUvsLg1VGQWxMi6AbaYQYhH-3cOy>

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### Sheet Metal Class

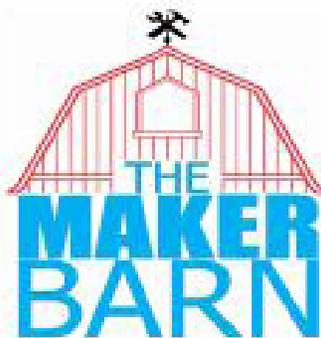
George Calson taught a class on the use of our new sheet metal machines. After an hour of instruction everyone had a chance to use the new equipment and make a small cell phone stand to take home!



## Potluck Dinner a Success!



No one left hungry from our latest MakerBarn potluck dinner held on Sunday August 28 at the Lab. Many thanks to all the maker cooks who showed off their culinary skills. All agreed, let's do this again!



## MADE AT MAKERBARN!

**John Hoaglun** made a table saw sled for cutting segments for making rings for bowl projects. He used a CNC, tablesaw, and a 3dprinter to make the components.

Using a wedgie sled vs a standard mitre means that by using the double fences of the wedgie there is less chance of error in the angles because they are not dependent on being square with the blade. Using a measurement wedge will allow you to make sure that the two fences are parallel to each other for the left and right cuts.



John used Fusion360 to work out the slots and arcs then exported the vectors and did the CAM design in VCarve Pro.



**John Buckley** completed a model train animation of a Circus Parade using nearly all the woodworking equipment of the barn and much help from many members, especially George C, Raul G and CE Raum. The parade has been installed at All Points North model railroad in Conroe.

## ***MADE AT MAKERBARN!***



**CE Raum** made a Fiber laser etching on his laptop PC - “When George introduced the fiber laser I immediately (and perhaps foolishly) wanted to etch my MacBook. Inspired by the apple logo I created my interpretation of the “Creation of Adam” using an 1830’s metal etching of Isaac Newton and a stock photo image of a hand manipulated in Photoshop. Careful cropping and rotation allowed me to use the full 7” square working area of the laser. It’s made me much more productive on my computer.”

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### ***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!

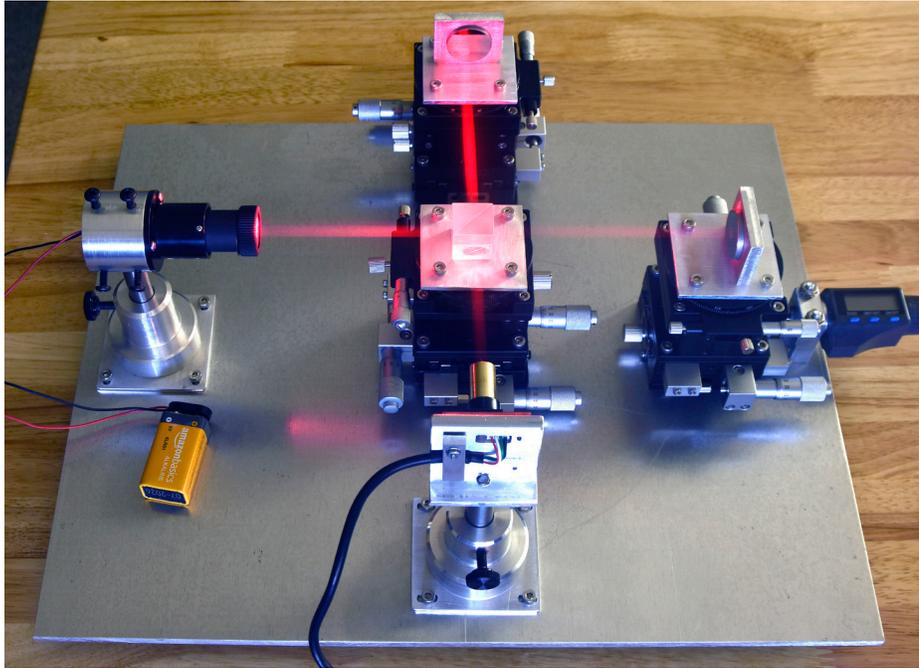
## **MADE AT MAKERBARN!**

**CE Raum** made Nightstands - *“Many will have seen the nightstands I built for a fellow member using wood that Ross had milled himself. The species is a bit of a mystery, after examining an end grain cut under a microscope it is likely from the locust tree family. But whatever it is - the wood is beautiful with a deep rick color and intense figuring. Splits and crack and voids were filled with gray tinted epoxy resin. Virtually every machine in the shop was used, but it just wouldn’t have happened without the mortising machine. In addition to traditional mortise and tenon joinery throughout, the top joints allowed me to learn how create a very neat three way miter. The wood fought me every step of the way, but it was all worth it when the oil went on and the beauty was revealed. As an added twist I integrated a wireless charger into the top so they can wake up to a charged phone every morning.”*

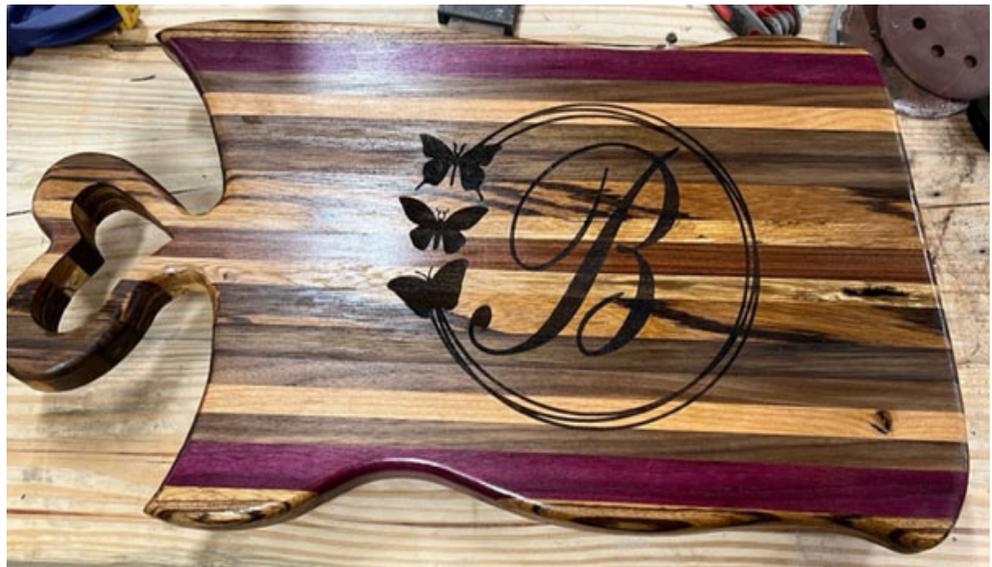


**CE Raum** made a Stained glass butterfly - *“I’ve been enjoying making small dimensional stained glass pieces. Here I made a butterfly mounted on a scrap piece of wood. The finer lines are copper tape applied directly to the glass and add a lot of detail to the small pieces”*

# MADE AT MAKERBARN!



**George Carlson** built a laser interferometer that can make measurements with a resolution of about 4 millionths of an inch. Close enough for most woodworking projects.



**Warren Davis** made a designer charcuterie board and cutting board.

## Farewell, CE

It was not long ago that I came to Houston, I didn't know the area and I didn't have any friends. I did know I enjoy 3D printing and, if I was lucky, I could find a maker-space close to my new home. Little did I know when I met Ed and toured the Barn how lucky I was indeed. Ed is a terrible salesperson and let me know if I joined right away I could help with the move. But I am so glad I did. Firstly I became intimately aware of where everything went, but during those steamy days hanging slat board and screwing together duct work that I knew I had found an incredible community of knowledgeable and enthusiastic makers and volunteers. It was without hesitation that I volunteered to be a manger (had I known how hot it was going to get I would NOT have taken an afternoon shift!), but that first Monday staring at all these mysterious machines gave me the time and motivation to learn new skills. Those skills have become a passion, a passion that I have shared with many members. Any question I had was answered by woodworkers and crafters with willingness and generosity - decades of experience were shared with me. I learned how to use the tools well, how to use them safely, how to push my own skills - and learned how to share those skills with others. This is what makes a maker-space special, and what makes The MakerBarn one of a kind.



The dream that the founders had lives on every day. I am astounded with every creation I see here, how new members arrive with the hopes of learning one machine and soon find themselves exploring everything there is offer. I enjoy seeing creativity bloom and confidence grow. I am sorry to be leaving this community, I will miss everything about being a member of The MakerBarn. Thankfully I have already found a maker-space in my new home and I hope to be able to bring to them some of what I learned here - that love for making is eclipsed by the beauty of the community of makers. I thank every one of you for sharing with me, teaching me, and inspiring me to do more.

*Editor Note: Best of luck CE & many thanks for all you have done!*

## Meet The Area Managers

	<p><u>WOODWORKING &amp; CNC</u></p> <p><b>Jim Barron</b> 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><b>Greg Radliff</b> 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><b>Jody Cochran</b> 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><b>Bryan Manka</b> 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><b>Raul Garcia</b> 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><b>Daniel Claybaugh</b></p>	<p><u>WELDING</u></p> <p><b>Daniel Claybaugh</b> 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

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### 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  
Daniel Cielecy - Treasurer  
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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