



PERTH ARTIFACTORY INC.

ANNUAL REPORT
2021 – 2022



A WORD FROM **OUR CHAIR**

“grow and nurture our place in the community”

The start of this last year has seen the pandemic hitting WA. However, after the lifting of Covid restrictions, we have been able to move on from the dire state we had found ourselves in the last 2 years. We have been able to attend events previously cancelled such as Supanova, bolstering some of our finances. The continued support of our members has also assisted with this.

This past year has seen the space refocus on ensuring the safety of our members by introducing a code of conduct. We have also introduced an online voting system to streamline the acceptance of new memberships. The introduction of new events based at the space, such as Metal Mondays, has increased member interaction.

The facilities have seen a continued level of refurbishment that has improved the space, which I know will extend into the next year.

In the coming year, it is my wish to see the Perth Artifactory not only to keep improving, but to grow and nurture our place in the community, further cementing why we are the best makerspace in the state.

- Beau Scott

SUPPORTING THE COMMUNITY

OPEN TO THE PUBLIC

The Perth Artifactory is proud to be open to the general public for events and workshops, groups, casual hackers, and makers.

Our volunteers are dedicated to providing and maintaining tools, workspaces, machines, and equipment that few people would otherwise have access to.

We are focused on providing a place where people of all backgrounds with an interest in technology or the arts can come together to work on projects, share ideas, and socialise.



OUR PURPOSE

- ▶ Promote the creative use of technology
- ▶ Establish, maintain, and equip a shared work space for our members
- ▶ Provide work space, storage, and other resources for the creative and artistic use of technology
- ▶ Foster a collaborative, inclusive, safe, and creative environment for artistic and technological projects
- ▶ Educate and train our members in skills relevant to our purpose
- ▶ Organise educational, social, and cultural events to promote the creative use of technology
- ▶ Raise funds to support our purpose
- ▶ Communicate and collaborate with others with similar objectives

SPONSORSHIP PROGRAMS

SPONSORED STUDENT MEMBERSHIP PROGRAM

This program is now three years old and has supported more than 18 tertiary students that otherwise wouldn't be able to access the space. From engineering to metal sculpting, the support of our student sponsors has allowed us to truly diversify the space.

The Sponsored Membership Program provides:

- 3 months of membership and free/discounted entry to workshops and events at the Artifactory
- Support and training on the usage of Artifactory equipment and resources
- One-on-one mentoring with experienced Artifactory members

"Being granted a sponsored membership has allowed me to develop my creative practice without limitation. The advice, assistance, and access to resources has already helped me more than working from campus ever has. Everyone is kind and helpful and a pleasure to spend time with. Thank you again for allowing me this opportunity."

- Opie Robinson, sponsored student

RESIDENT NOIZE ARTIST PROGRAM

The Artifactory provides a rotating artist residency, where the artist in residence gets free access to the workshop as an associate member and with an opportunity to perform at several monthly experimental music nights as part of NoizeMaschin!!

Over a three to six month period the successful applicant receives:

- 24 hour access to the Artifactory
- Support and training on the usage of Artifactory equipment and resources
- Free entry to Artifactory workshops and events
- 3 performance slots of 10 minutes at NoizeMaschin!! Perth
- Access to the Artifactory Rehearsal Room

The residency program is designed to assist with the creative development of original DIY projects and foster composer, musical, and artist engagement. Consecutive performance opportunities help artists to develop their craft in a supportive environment.



EVENTS & WORKSHOPS

Financial Year	Artifactory Member Run	External Party Run	Total
2016 - 2017	126	33	159
2017 - 2018	135	56	191
2018 - 2019	190	72	262
2019 - 2020	181	45	226
2020 - 2021	171	28	199
2021 - 2022	149	34	183

Events	Host	Number Held
General Hacking Day	Artifactory	52
Arduino U	Artifactory	26
Wine & Design	Artifactory	26
Perth Hackers Open-Source Afternoons	Perth Open Source Hackers	12
Open Days	Artifactory	12
3D Printer Working Group	Artifactory	12
NoizeMaschin!! Live + Streaming Editions	Artifactory	10
Laser Maintenance Meetup	Artifactory	9
Metal Monday	Artifactory	7
Leathercraft Workshops	Western Leathercraft	6
Modular Synth DIY Workshops	West Australian Modular Synthesizers	6
Artifrag	Artifactory	2
Halloween Movie Night	Artifactory	1
Artifactory Build Day	Artifactory	1
Laser Cutter Train-the-Trainer	Artifactory	1



EVENTS & WORKSHOPS

2021 - 2022



OPEN DAYS

The first Saturday of every month is an open day where we welcome members of the public along to meet Artifactory regulars and have a tour of the facilities.

Open days are a great chance to learn more about the Artifactory and even get trained to use equipment like the laser cutters. Many of our long-term members first saw the Artifactory at an open day!



GENERAL HACKING DAY

The general hacking days are a time every Saturday where our members open the doors to allow the public to come in and work on whatever they like. From cosplay costumes to electronic gadgets, furniture to musical instruments, pieces of art to functional homewares, the list goes on.

EVENTS & WORKSHOPS

2021 - 2022



Aluminium casting



Lathe project



Mill training



Angle grinder training

METAL MONDAY

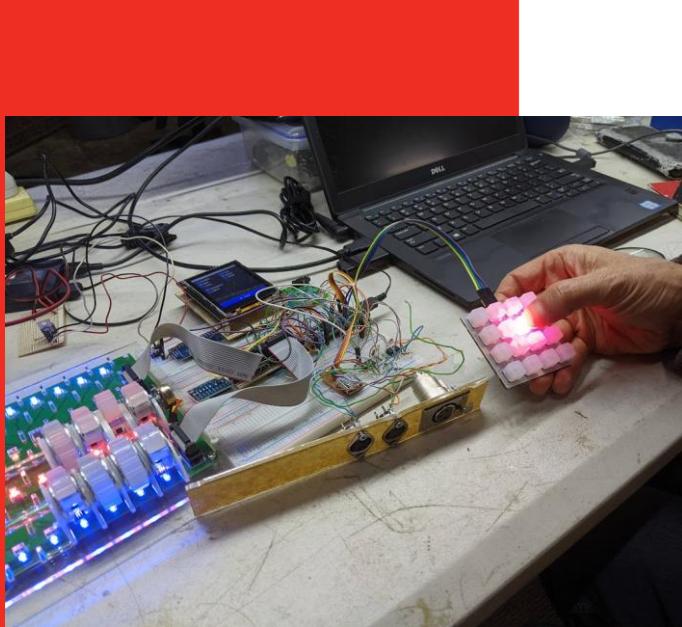
Our newest fortnightly event, Metal Monday, is an evening for all things metal - machining, welding, fabrication. It's a great time to learn about metalworking and get trained on our machines. Want to learn to weld? We have you covered!

Join us and build something or help out with one of the group projects. Bring along anything you're working on and share ideas with the group.

This year members made significant progress restoring and rebuilding a lathe. Come along and be part of commissioning a new tool for the space!

EVENTS & WORKSHOPS

2021 - 2022



WINE AND DESIGN

An evening of contemplating artifact and interior design partly with the aim of making the Artifactory look cool and partly to develop an Artifactory Aesthetic. Bring a bottle and some books.

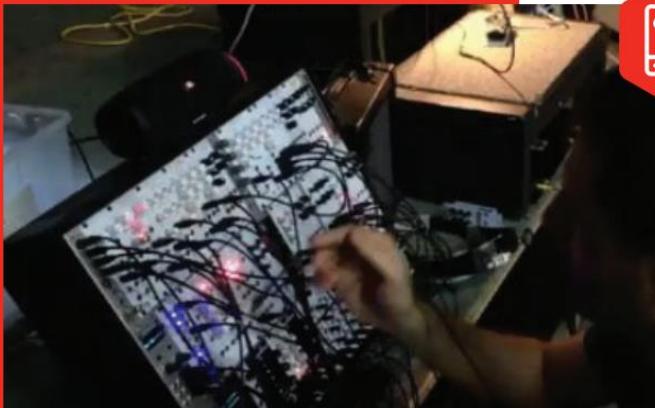
Wine and design is 12 years in and still a popular event with members and non-members alike.

ARDUINO U

For 11 years and counting, this fortnightly meetup is where professionals, enthusiasts, and amateurs come together to work on their electronics projects. Members and visitors benefit from shared knowledge to create everything from musical instruments to motion controlled lights. The format is flexible, catering well to people completely new to electronics and experienced hackers looking for the next piece of inspiration!

EVENTS & WORKSHOPS

2021 - 2022



DIY SYNTH WORKSHOPS

Hosted by WAMod: West Australian Modular Synthesizers and often known simply as "ModSynth", this workshop is one of the Artifactory's most popular workshops. Enthusiasts of analogue "eurorack" style synthesisers meet up and build modules. These modules are wired together in a rack and a cacophony of sounds ensue!



ARTIFRAG

The Artifactory's computer game LAN party continues to go strong this year with the 13th Artifrag in January 2022. Started in 2018, it gives Artifactory members and visitors a chance to let off steam playing computer and console games ranging from classics through to the leading edge. Its a great chance for those interested in computers and technology to meet up for some gaming and learn a bit about the Perth Artifactory.

EVENTS & WORKSHOPS

2021 - 2022



LEATHER CRAFT WORKSHOP

This workshop provides lessons in traditional and modern leathercrafting by Western Leathercraft. Attendees are taught to make their own leather accessories like wristbands using common leathercrafting tools. The classes provide the skills necessary to successfully manufacture your own creations!



EVENTS & WORKSHOPS

2021 - 2022



NOIZEMASCHIN!!

Noizemaschin!! is a noise and experimental music concert held at the Perth Artifactory

Starting from its first concert in July 2011, Noizemaschin!! has recorded all performances and made them available via their account on YouTube, providing both an archive and degustation of the current Perth experimental music scene.

It is where our Resident Artists get to show and perform their creations.



EVENTS & WORKSHOPS

2021 - 2022



LASER MAINTENANCE MEETUP

Our laser cutters are an empowering tool for the hacker and maker. They allow operators to sculpt, shape, and mark wood, plastic, fabric, leather, and food with computer-controlled precision. However, they need some maintenance to ensure they run smoothly. The laser maintenance meetup is an ongoing event to perform periodic maintenance but also to upskill members so more and more people can perform maintenance whenever it's needed.

With a little training, regular users can repair minor laser cutter issues themselves. Whether it's a dirty lens, out of level bed, or a head crash this event gives operators the skills required to tackle the issue with confidence. As a bonus laser, maintenance meetups allow for more advanced laser cutting techniques to be shared and questions answered in depth.



ARTIFACTORY OUT & ABOUT



SUPANOVA

Supanova was back in Perth this year and the Artifactory pulled out all the stops to show what our makerspace is all about. Our display included many bits and pieces made at the space and was setup to show people how they too could be a maker at the Perth Artifactory.

Our stall had games to play, items on display like cosplay pieces made by Artifactory members, and kits for sale including our catapult and the tabletop tiles (see the feature in Member Showcase). The tiles were a hit and sold out within hours! Of course, our mascot Giant Robot was there too – resplendent in LEDs!

Thanks goes to the tireless work of our volunteers who make all these amazing things and spend the time spreading the word about the Artifactory at events like these.



SPECIAL INTEREST GROUPS



BREWING

Brewing continues in earnest at The Perth Artifactory with various beers, ciders, and mead being produced. Take a look in the kitchen to see what's brewing!

AUTOMOTIVE

Largely driven by some members wanting to fix the paint on their car, purchases have been made that have resulted in the Artifactory possessing quite a few tools for car maintenance and part fabrication. Talk to the automotive special interest group to make your car look slick!

FORGING AND CASTING

Members continue to find new and exciting uses for our forging and casting equipment. Aluminium, copper, iron – they continue to smelt and recycle a variety of materials. Head over to #fireandforge on Slack to learn more.

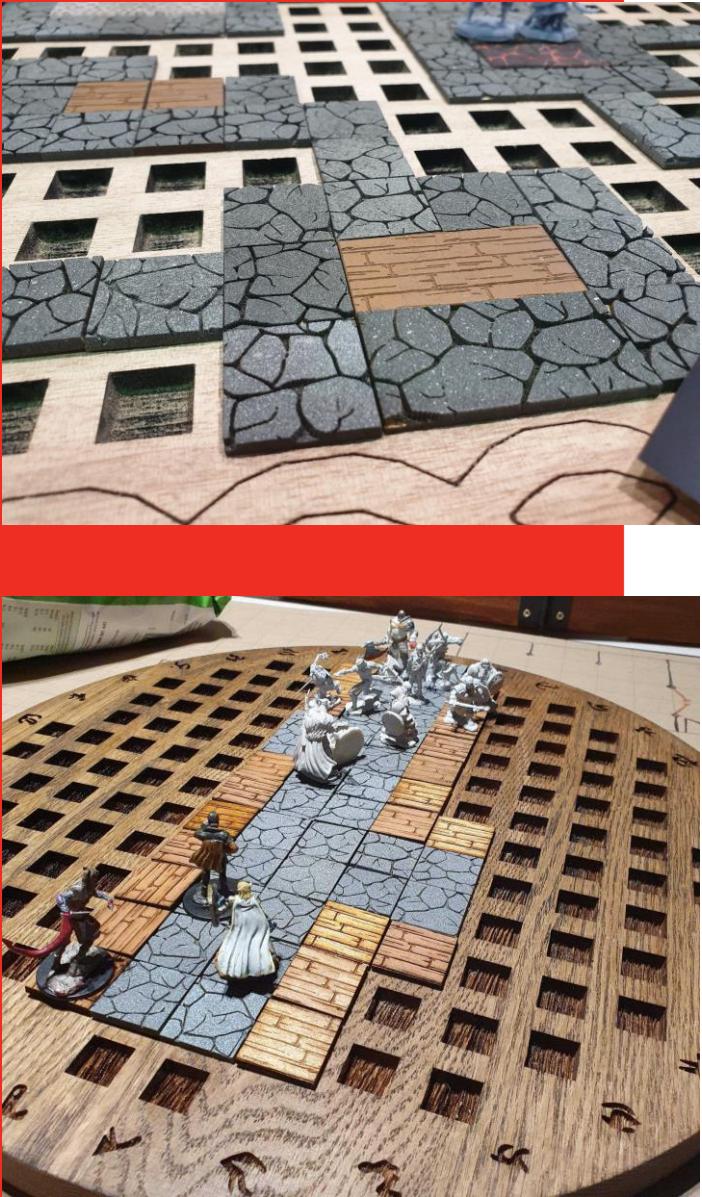
MEMBER SHOWCASE

Artifactory members make some incredible things. Please take a look and be inspired to make your own creations! Always remember the Artifactory motto:

"Don't think, make!"



MEMBER SHOWCASE



TABLETOP TILES

Fletcher Boyd, Beau Scott, Iain Graham, and Joshua Rospondek

Starting as a last-minute idea for Supanova, the modular tabletop tiles have become somewhat of a runaway hit. The system lets game masters create realistic and stable environments for their roleplaying tabletop adventures quickly.

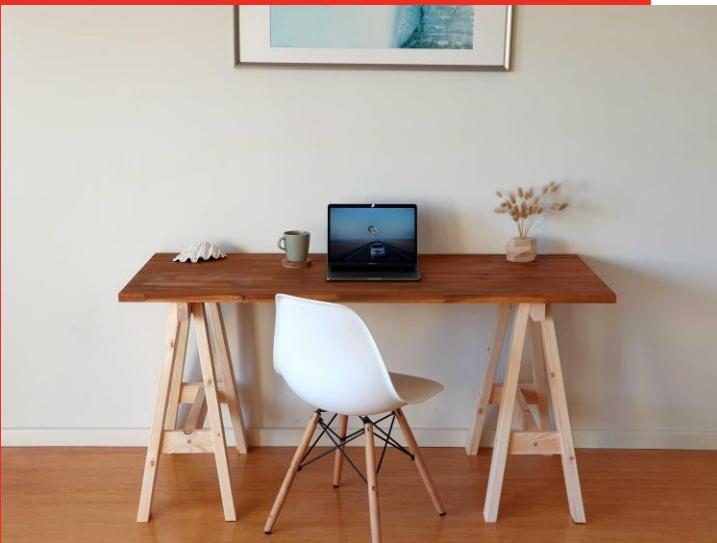
Various laser cutting, painting, and sanding techniques have been brought together and refined to allow for a unique tactile experience while facilitating production quantities.

Pictured here are a dungeon setup, a street brawl, an in progress custom board, and a prototype crate.

Thanks to everyone that helped with peeling during crunch time!



MEMBER SHOWCASE



WOODWORKING

Phil

A master of woodworking, Phil has used the tools and equipment of the Artifactory to great effect in the creation of many bespoke projects. See several examples of his craft in these photos. Our very own recording studio workstation now sit atop one of his elegant tables.

It goes to show how versatile and accommodating the space is to all kinds of wood projects!



MEMBER SHOWCASE



GUITAR PEDALS

JC aka Anarchy Audio

JC makes world class guitar effects pedals - everything from classically inspired to experimental creations. Using some of the Artifactory's tools he drills, paints, finishes, laser engraves, solders, and hand-wires these tools of musical perfection.

JC shared his knowledge and skill at an exclusive DIY workshop at the Perth Artifactory earlier this year which is exactly what our space is about!



MEMBER SHOWCASE



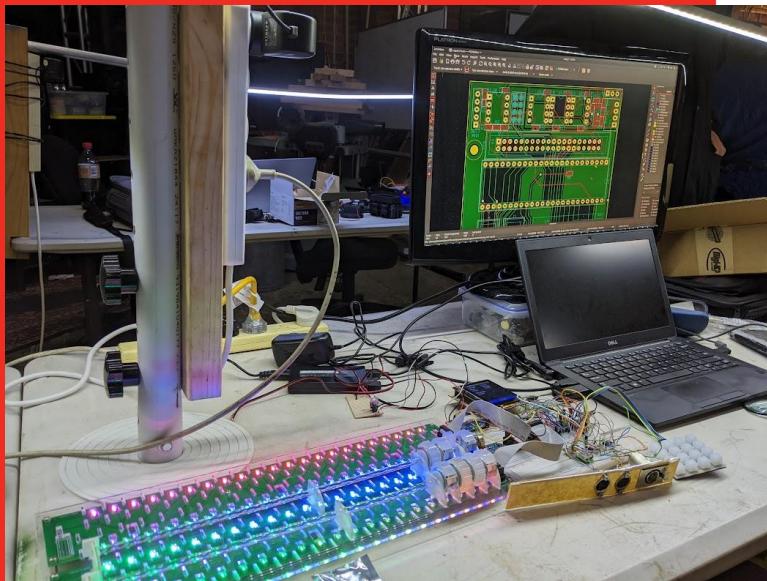
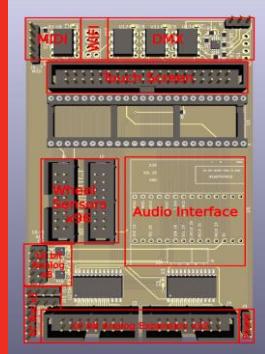
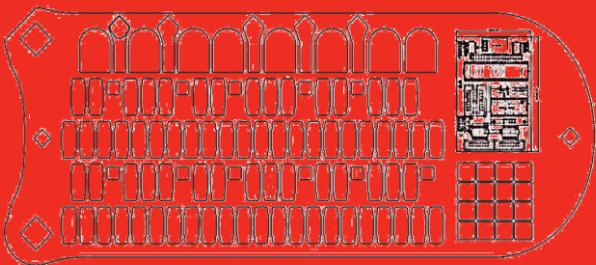
TRAIL SIGNAGE

Ben Connor

Wheatbelt Cycling Collective is a not-for-profit committed to developing and maintaining cycling trails in the Wheatbelt region. This year, with the assistance of Artifactory members, their trails underwent a massive signage upgrade. Using Swarf-o-Mat, the Artifactory's venerable CNC router, the Collective made a large collection of signs from Australian hardwood that are now installed and guiding enthusiastic mountain bikers from all over the state.



MEMBER SHOWCASE



MORPHONIUM

Claude Woodward and Stewart Greenhill

Collaboration between Artifactory members enables evolution and inspiration. Claude and Stewart have combined their expertise in development of the Morphonium - a new MIDI control surface that achieves an unprecedented density of control wheels by using magnetic sensing in place of conventional potentiometers. Featuring a 600MHz Teensy 4.1 microcontroller, capacitive touch-screen, 4x4 button pad, audio input/output, hall effect sensors, push buttons, and interfaces for WIFI, MIDI, USB, and DMX this will be a behemoth of music creation.

Combining music theory, CAD, PCB design, electronics, magnetic simulation, laser cutting, software coding, and a whole lot of RGB goodness this project is epic. We can't wait to see the result!

Hear what Claude has to say:

"My hope is this controller will revolutionise electronic music by allowing unprecedented expressive control"

MEMBER SHOWCASE

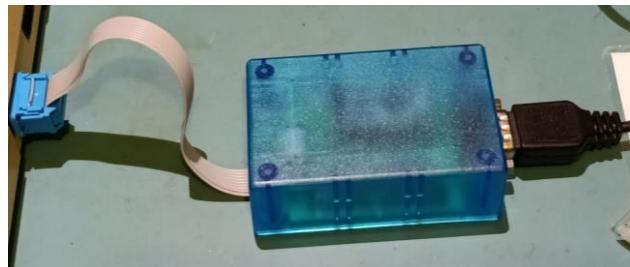


RETROCOMPUTING

Cheshire Noir

Chesh has a flair for all things retro and worked on several such projects at the Artifactory this year. His Sega to Atari Controller converter pictured below allows the enjoyment of classics such as Pharaoh's Curse with the robust construction of a Sega Controller and luxuries like auto fire. PCB design done in KiCAD and an Arduino Pro Micro make this a professional hack!

Some prototype designs of his Microbee case are featured to the left and show the things to come next year!





KIDS COSTUMES

JC

Need to keep the kids entertained? How about some quick and easy laser cut corflute swords? Great to round out a DIY costume for kids of any age. Corflute is a cardboard like material which can be easily laser cut - durable but safe to work and play with.

Got an idea for cosplay or something fun? Why not come down to the Artifactory and chat to our volunteers about how you can learn to make it a reality.



MEMBER SHOWCASE



DECORATIVE SIGNAGE

Ben Connor

What better way to remember a visit to the Artifactory than when your child makes you a custom decorative house number! Ben cuts no corners when demonstrating the capabilities of Swarf-o-Mat, our CNC router. It makes short work of metal and wood alike to create a striking display.

ENHANCEMENTS TO THE ARTIFACTORY

Another year of significant improvements to the tools and equipment available for use at The Perth Artifactory! We thank the generous member contributions of time and money that made all these improvements possible.



Improvements that have been made to the space from the extraordinary effort put in by our hard-working members include:

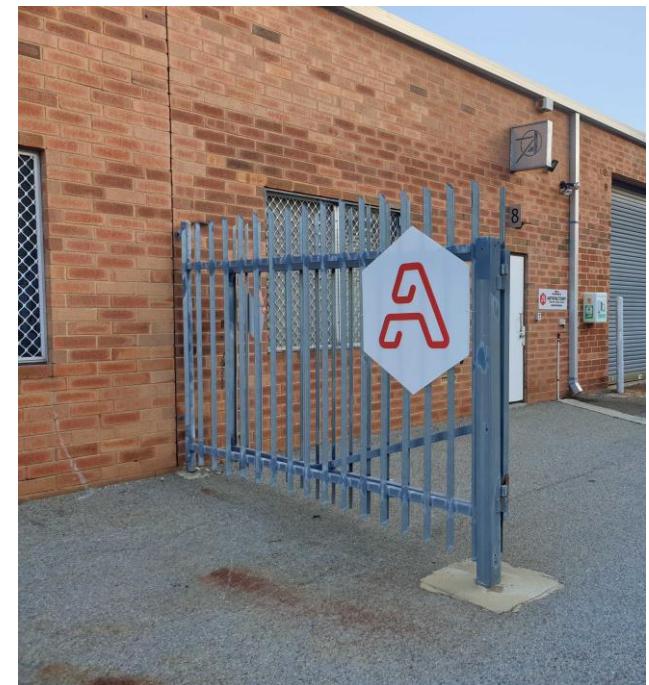
- New machine room bench and upgraded lighting
- Upgrades to machine room dust extraction
- Updated Artifactory signs – bar and front gate
- Containers for change recycling bin
- Board games collection housed on shelves near social table
- New 3D printer: Anycubic Photon Mono X
- Further upgrades to welding bay

ENHANCEMENTS TO THE ARTIFACTORY



SIGNAGE

On the back of our new logo last year members are progressively upgrading Artifactory signage. The bar and gate got the new logo treatment this time around. The bar really pops in its radiant LED glow.



ENHANCEMENTS TO THE ARTIFACTORY



DESIGN LAB

After its refit last year, the Design Lab continues to be a focus of activity with its increasing fleet of 3D printers. This year brought onboard an Anycubic Photon Mono X which is an excellent machine for your resin-based 3D printing needs. Reach out on Slack to organize your training!

3D printers are provided through member loans which shows just how generous our volunteers are at the Artifactory.



When a regular volume knob won't do!

ENHANCEMENTS TO THE ARTIFACTORY



TOOL ROOM

Our tool room improvements continue this year, tidying and optimizing this modern workshop space! The improved work bench is a striking feature and has top notch lighting to match. Tool storage is functional and efficient. Dust extraction helps maintain a clean workspace. Many tools and equipment have been donated including the pictured wood clamps. Only the best of Artifactory tooling gets the custom logo treatment!



ENHANCEMENTS TO THE ARTIFACTORY



WELDING AND METAL WORK BAY

The welding bay has become its own focus of activity with Metal Monday invigorating use of this zone. This year saw further upgrades and organisation to streamline use of the area.



CONTAINERS FOR CHANGE

Through partnership with the City of Stirling, we now have a Containers for Change can recycling bin. The cans get recycled and Artifactory gets some cash. Win-win!



BOARD GAMES

The Artifactory's wide collection of board games is now easily accessible to all members now it's housed right next to the social table. Next time you're in, grab some friends and a game!

FINANCIAL REPORT

TREASURER'S COMMENTARY

Through the eyes of a treasurer, the last couple of years at the Artifactory have been the story of the pandemic. This year, we're writing the story of the recovery.

The financial backbone of the Artifactory is memberships and the financial health of the space can be estimated by a quick look at the membership numbers. You will see from the summary in this report that we are currently below historical levels of membership. This has actually been the case for some time: last year's report included a considerable number of memberships that were deep in arrears, many of which could be considered defunct. Our assessment in April 2022 was that we had 30 full members, 16 concession members, and 2 bands in good financial standing, which is well below what the Artifactory can sustain.

Thankfully, things are now much healthier. Although the turnaround was only starting as at the reporting date we are now clearly on an upward trend, growing membership numbers month on month. We have been helped by the lifting of COVID restrictions which permitted Supanova - a staple Artifactory recruiting ground - to proceed. We also had a hit product to sell at Supanova this year - more on that elsewhere in the report.

While things are looking up, there is still work to do. We are still down on membership historically and relative to our expenses, and in particular the committee is keen to rebuild our ties to the tertiary student community. We will need to continue to be diligent in the financial management of the space and continue to ensure that membership and use of the space represents great value - practically and socially - for all our stakeholders.

It's worth noting that a number of our members have quietly and anonymously made significant in-kind contributions to keeping the Artifactory running through the hard times of the last couple of years, whether by re-stocking the fridge out of their own pockets, absorbing the costs of equipment maintenance, or putting in the hours to keep the space attractive and presentable. These contributions are invisible in the numbers but have helped us get through a period where many community organisations have ceased to operate. They wouldn't want to be called out, but they are due a big thanks from all of us.

- Ben Connor

INCOME / EXPENDITURE

Income

	2021-2022
Membership Fees	\$45,175
Workshops / Events / Tool Fees / Fundraising / Casual Fees / Other	\$14,929
Donations	\$1,548
Grants	\$1,000
Equipment Sales	\$897
Product Sales	\$811
Recycling	\$86
Misc	\$21
Total	\$64,467

Expenditure

	2021-2022
Lease and Outgoings	- \$50,033
Electricity	- \$4,183
Insurance	- \$3,312
IT	- \$2,003
TidyHQ Fees	- \$949
Waste Removal	- \$723
Bank Fees	- \$306
Equipment Repairs / Infrastructure Maintenance	- \$302
Equipment Purchases	- \$105
Promotions	- \$77
Total	- \$61,992

Overall

	2021-2022
Income	\$64,467
Expenditure	- \$61,992
Total	\$2,475

ASSETS & LIABILITIES

Assets

	30 June 2022
Accounts & Cash Balance	\$13,300
Guthrie St Lease Bond \$6,000.00	\$6,000
Assets (conservatively estimated & insured at 100K)	\$100,000
Assets on 30th June	\$119,300

Liabilities

	30 June 2022
24/7 Key Bond Held	- \$15,471
Liabilities on 30th June	- \$15,471

Net Assets

	30 June 2022
Net Assets on 30th June	\$103,829

MEMBERSHIP

	2018-19	2019-20	2020-21	2021-22
Full Memberships	34	35	42	31
Concession Memberships	28	29	32	20
Band Memberships	3	3	2	3
Associate/Other Memberships	5	6	0	1
Total	70	73	76	55

THE COMMITTED

THE COMMITTEE

Chair: Beau Scott

Vice Chair: Fletcher Boyd

Secretary: Phoebe-Jean Harris

Treasurer: Vincent Dalstra

Deputy Treasurer: Ben Connor

Ordinary Committee Member: Iain Graham

Ordinary Committee Member: Johannes Chuah

Ordinary Committee Member: Jason Kongchouy

Ordinary Committee Member: Joshua Rospondek

Ordinary Committee Member: Jeremiah Finch (Sep-Feb)

ANNUAL REPORTER-IN-CHIEF

Blake Samuels

On behalf of the Artifactory community, the Management Committee thanks all those involved in running events, workshops, subcommittees, maintenance, revamping, fundraising, communications, social media, promotions, and other duties to support the Artifactory in remaining a staple of the Perth maker community.

SUBCOMMITTEES

IT

Promotions

Lasers

Infrastructure

Sponsored Membership Panel

OFFICERS

Infrastructure Chair: Joshua Rospondek

Rehearsal Room Coordinators: Johannes Chuah,
Martin Gonzalez

Quartermaster: Vincent Dalstra

Events Officer: Phoebe-Jean Harris

Membership Officer: Fletcher Boyd

Member Storage Officer: Steve Hodges

The Ambassador: Magnus Danger Magnus

EVENT/WORKSHOP HOSTS

Connor, Dalstra, Harris, Price, Samuels, Bannon, Kongchouy, Gilchrist, McDonald, Graham, Hodges, Bateman, Frazer, Boyd, Scott, Greenhill, Chuah, Mews, Perry, and the many others accidentally omitted!

AGM 2021





ARTIFACTORY
PERTH'S MAKER SPACE

PERTH ARTIFACTORY INC

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S: space.artifactory.org.au/slack

ABN: 16 847 853 023

Perth Artifactory Inc is a
not-for-profit incorporated
association in Western Australia
and registered as a charity with
the Australian Charities and
Not-for-profits Commission.